



Philips Semiconductors RF Small Signal Discretes

Replacements & cross references lists

- Updated: April 2003
- Remarks to: Ronald.Thissen@philips.com
- Online cross reference tool: <http://www.semiconductors.philips.com/products/xref/>



TS	1SS314	BA591 ■
RO	1SS356	BA591 ■
TS	1SS381	BA277 ■
RO	1SS390	BA891 ■
TS	1SV172	BAP50-04 ■
TS	1SV214	BB149
TS	1SV214	BB149A
TS	1SV215	BB153
TS	1SV217	BB133
TS	1SV228	BB201 ■
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TS	1SV231	BB152
TS	1SV232	BB148
SA	1SV233	BAP70-03 ▲
SA	1SV234	BAP64-04
TS	1SV239	BB145B
SA	1SV241	2xBAP64-02 ▲
TS	1SV242	BB164
SA	1SV246	BAP64-04W
SA	1SV247	BAP70-02 ▲
SA	1SV248	BAP50-02 ▲
SA	1SV249	BAP50-04W
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SA	1SV251	BAP50-04
TS	1SV252	BAP50-04W ■
TS	1SV254	BB179
TS	1SV262	BB133
SA	1SV263	BAP50-02 ▲
SA	1SV264	BAP50-04W ■
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TS	1SV293	BB190 ■
SA	1SV294	BAP70-03 ▲

TS	1SV305	BB202
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TS	1SV308	BAP51-02 ■
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SO	1T407	BB182B
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HI	2SC4784	BFS505
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IN	BFG235	BFG135



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IN	BFS483	BFM520
IN	BFT92	BFT92
IN	BFT93	BFT93
IN	BGB540	BGU2003
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HI	BIC701M	BF1105R
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AG	HSMP3804	BAP50-05
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IS	J308	J108
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MA	MA374	BB164

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MA	MA4P277-1141	BAP70-03
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MO	MRF957	PRF957
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MO	PRF947B	PRF947
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RO	RN142S	BAP1321-02
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RO	RN739D	BAP50-04
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AL	SMP1352-079	BAP64-02
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NE	uPC2745	BGA2001
NE	uPC2746	BGA2001
NE	uPC2748	BGA2748
NE	uPC2771	BGA2771
NE	uPC8112	BGA2022

MMIC Replacement List

Agilent to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Agilent	INA-51063		BGA2001	SOT343R

Infineon to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Infineon	CMY91		BGA2022	SOT363
Infineon	BGB540		BGU2003	

NEC to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
NEC	uPC2709		BGA2709	SOT363
NEC	uPC2711		BGA2711	SOT363
NEC	uPC2712		BGA2712	SOT363
NEC	uPC2748		BGA2748	SOT363
NEC	uPC2771		BGA2771	SOT363
NEC	uPC2745		BGA2001	SOT343R
NEC	uPC2746		BGA2001	SOT343R
NEC	uPC8112		BGA2022	SOT363

Wideband Replacement List

Agilent to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Agilent	HBFP0405	SOT343R	BFG410W	SOT343R
Agilent	HBFP0420	SOT343R	BFG425W	SOT343R
Agilent	HBFP0450	SOT343R	BFG480W	SOT343R

Motorola to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Motorola	BFR92AL	SOT23	BFR92A	SOT23
Motorola	BFR93AL	SOT23	BFR93A	SOT23
Motorola	BFS17L	SOT23	BFS17	SOT23
Motorola	BFS17L	SOT23	BFS17	SOT23
Motorola	MMBR5031L	SOT23	BFS17	SOT23
Motorola	MMBR5179L	SOT23	BFS17A	SOT23
Motorola	MMBR571L	SOT23	PBR951	SOT23
Motorola	MMBR901L	SOT23	BFR92A	SOT23
Motorola	MMBR911L	SOT23	BFR93A	SOT23
Motorola	MMBR920L	SOT23	BFR93A	SOT23
Motorola	MMBR931L	SOT23	BFT25A	SOT23
Motorola	MMBR941BL	SOT23	PBR941	SOT23
Motorola	MMBR941L	SOT23	PBR941	SOT23
Motorola	MMBR951AL	SOT23	PBR951	SOT23
Motorola	MMBR951L	SOT23	PBR951	SOT23
Motorola	MRF577	SOT323	PRF957	SOT323
Motorola	MRF5811L	SOT143	BFG93A/X	SOT143
Motorola	MRF917	SOT323	BFQ67W	SOT323
Motorola	MRF927	SOT323	BFS25A	SOT323
Motorola	MRF9411L	SOT143	BFG520/X	SOT143
Motorola	MRF947	SOT323	BFS520	SOT323
Motorola	MRF947A	SOT323	PRF947	SOT323
Motorola	MRF9511L	SOT143	BFG540/X	SOT143
Motorola	MRF957	SOT323	PRF957	SOT323
Motorola	PRF947B	SOT323	PRF947	SOT323

Wideband Replacement List

Infineon to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Infineon	BF770A	SOT23	BFR93A	SOT23
Infineon	BF771	SOT23	PBR951	SOT23
Infineon	BF771W	SOT323	BFS540	SOT323
Infineon	BF772	SOT143	BFG540	SOT143
Infineon	BF775	SOT23	BFR92A	SOT23
Infineon	BF775A	SOT23	BFR92A	SOT23
Infineon	BF775W	SOT323	BFR92AW	SOT323
Infineon	BF799	SOT23	BF747	SOT23
Infineon	BF799	SOT23	BF747	SOT23
Infineon	BF799W	SOT323	BF547W	SOT323
Infineon	BFG135A	SOT223	BFG135	SOT223
Infineon	BFG193	SOT223	BFG198	SOT223
Infineon	BFG194	SOT223	BFG31	SOT223
Infineon	BFG196	SOT223	BFG541	SOT223
Infineon	BFG19S	SOT223	BFG97	SOT223
Infineon	BFG235	SOT223	BFG135	SOT223
Infineon	BFP180	SOT143	BFG505/X	SOT143
Infineon	BFP181	SOT143	BFG67/X	SOT143
Infineon	BFP182	SOT143	BFG67/X	SOT143
Infineon	BFP182R	SOT143R	BFG67/XR	SOT143R
Infineon	BFP183	SOT143	BFG520/X	SOT143
Infineon	BFP183R	SOT143R	BFG520/XR	SOT143R
Infineon	BFP193	SOT143	BFG540/X	SOT143
Infineon	BFP193W	SOT343R	BFG540W/XR	SOT343R
Infineon	BFP196W	SOT343R	BFG540W/XR	SOT343R
Infineon	BFP280	SOT143	BFG505/X	SOT143
Infineon	BFP405	SOT343R	BFG410W	SOT343R
Infineon	BFP420	SOT343R	BFG425W	SOT343R
Infineon	BFP450	SOT343R	BFG480W	SOT343R
Infineon	BFP520	SOT343R	BFU510	SOT343R
Infineon	BFP540	SOT343R	BFU540	SOT343R
Infineon	BFP81	SOT143	BFG92A/X	SOT143
Infineon	BFP93A	SOT143	BFG93A/X	SOT143
Infineon	BFQ193	SOT89	BFQ540	SOT89
Infineon	BFQ19S	SOT89	BFQ19	SOT89
Infineon	BFR106	SOT23	BFR106	SOT23
Infineon	BFR180	SOT23	BFR505	SOT23
Infineon	BFR180W	SOT323	BFS505	SOT323
Infineon	BFR181	SOT23	BFR520	SOT23
Infineon	BFR181W	SOT323	BFS520	SOT323
Infineon	BFR182	SOT23	PBR941	SOT23
Infineon	BFR182W	SOT323	PRF947	SOT323
Infineon	BFR183	SOT23	PBR951	SOT23
Infineon	BFR183W	SOT323	PRF957	SOT323
Infineon	BFR193	SOT23	PBR951	SOT23
Infineon	BFR193W	SOT323	PRF957	SOT323
Infineon	BFR35AP	SOT23	BFR92A	SOT23

Wideband Replacement List

Infineon	BFR92P	SOT23	BFR92A	SOT23
Infineon	BFR92W	SOT323	BFR92AW	SOT323
Infineon	BFR93A	SOT23	BFR93A	SOT23
Infineon	BFR93AW	SOT323	BFR93AW	SOT323
Infineon	BFS17P	SOT23	BFS17A	SOT23
Infineon	BFS17W	SOT323	BFS17W	SOT323
Infineon	BFS481	SOT363	BFM505	SOT363
Infineon	BFS483	SOT363	BFM520	SOT363
Infineon	BFT92	SOT23	BFT92	SOT23
Infineon	BFT93	SOT23	BFT93	SOT23

Hitachi to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Hitachi	2SC4463	SOT323	BF547W	SOT323
Hitachi	2SC4537	SOT323	BFR93AW	SOT323
Hitachi	2SC4592	SOT143R	BFG520/XR	SOT143R
Hitachi	2SC4593	SOT323	BFS520	SOT323
Hitachi	2SC4784	SOT323	BFS505	SOT323
Hitachi	2SC4807	SOT89	BFQ18A	SOT89
Hitachi	2SC4899	SOT323	BFS505	SOT323
Hitachi	2SC4900	SOT143R	BFG520/XR	SOT143R
Hitachi	2SC4901	SOT323	BFS520	SOT323
Hitachi	2SC4988	SOT89	BFQ540	SOT89
Hitachi	2SC5593	SOT343R	BFG410W	SOT343R
Hitachi	2SC5594	SOT343R	BFG425W	SOT343R
Hitachi	2SC5623	SOT343R	BFG410W	SOT343R
Hitachi	2SC5624	SOT343R	BFG425W	SOT343R
Hitachi	2SC5631	SOT89	BFQ540	SOT89

NEC to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
NEC	2SC4092	SOT143R	BFG67/XR	SOT143R
NEC	2SC4093	SOT143R	BFG67/XR	SOT143R
NEC	2SC4094	SOT143R	BFG520/XR	SOT143R
NEC	2SC4095	SOT143R	BFG520/XR	SOT143R
NEC	2SC4182	SOT323	BFS17W	SOT323
NEC	2SC4184	SOT323	BFS17W	SOT323
NEC	2SC4185	SOT323	BFS17W	SOT323
NEC	2SC4186	SOT323	BFR92AW	SOT323
NEC	2SC4226	SOT323	PRF957	SOT323
NEC	2SC4227	SOT323	BFQ67W	SOT323
NEC	2SC4228	SOT323	BFS505	SOT323
NEC	2SC4536	SOT89	BFQ19	SOT89
NEC	2SC4703	SOT89	BFQ19	SOT89
NEC	2SC5011	SOT343R	BFG540W/XR	SOT343R
NEC	2SC5012	SOT343R	BFG540W/XR	SOT343R

Wideband Replacement List

Toshiba to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Toshiba	2SC4247	SOT323	BFR92AW	SOT323
Toshiba	2SC4248	SOT323	BFR92AW	SOT323
Toshiba	2SC4315	SOT143R	BFG520/XR	SOT143R
Toshiba	2SC4320	SOT143R	BFG520/XR	SOT143R
Toshiba	2SC4321	SOT323	BFQ67W	SOT323
Toshiba	2SC4325	SOT323	BFS505	SOT323
Toshiba	2SC4394	SOT323	PRF957	SOT323
Toshiba	2SC4842	SOT343R	BFG540W/XR	SOT343R
Toshiba	2SC5065	SOT323	PRF957	SOT323
Toshiba	2SC5085	SOT323	PRF957	SOT323
Toshiba	2SC5087	SOT143R	BFG520/XR	SOT143R
Toshiba	2SC5088	SOT343R	BFG540W/XR	SOT343R
Toshiba	2SC5090	SOT323	BFS520	SOT323
Toshiba	2SC5092	SOT143R	BFG520/XR	SOT143R
Toshiba	2SC5095	SOT323	BFS505	SOT323
Toshiba	2SC5107	SOT323	BFS505	SOT323
Toshiba	2SC5463	SOT323	BFQ67W	SOT323
Toshiba	MT4S34U	SOT343R	BFG410W	SOT343R

Varicap Replacement List

Hitachi to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Hitachi	HVC200A	UFP	BB178	SOD523
Hitachi	HVC200A	UFP	BB187	SOD523
Hitachi	HVC202A	UFP	BB179 †	SOD523
Hitachi	HVC202B	UFP	BB179B	SOD523
Hitachi	HVC300A	UFP	BB182 †	SOD523
Hitachi	HVC300B	UFP	BB182 †	SOD523
Hitachi	HVC300B	UFP	BB182B	SOD523
Hitachi	HVC306A	UFP	BB187 †	SOD523
Hitachi	HVC306B	UFP	BB187	SOD523
Hitachi	HVC355	UFP	BB145 †	SOD523
Hitachi	HVC355B	UFP	BB145B †	SOD524
Hitachi	HVC359	UFP	BB202 †	SOD523
Hitachi	HVC363A	UFP	BB178 †	SOD523
Hitachi	HVC369B	UFP	BB143	SOD525
Hitachi	HVC372B	UFP	BB151	SOD323
Hitachi	HVU200A	URP	BB133	SOD323
Hitachi	HVU202(A)	URP	BB149	SOD323
Hitachi	HVU202(A)	URP	BB149A	SOD323
Hitachi	HVU202A	URP	BB134	SOD323
Hitachi	HVU300A	URP	BB132	SOD323
Hitachi	HVU300A	URP	BB152 †	SOD323
Hitachi	HVU300A	URP	BB164	SOD323
Hitachi	HVU306A	URP	BB133	SOD323
Hitachi	HVU307	URP	BB148	SOD323
Hitachi	HVU315	URP	BB148 †	SOD323
Hitachi	HVU316	URP	BB131	SOD323
Hitachi	HVU356	URP	BB155	SOD323
Hitachi	HVU357	URP	BB190	SOD323
Hitachi	HVU363A	URP	BB133	SOD323
Hitachi	HVU363A	URP	BB148 †	SOD323
Hitachi	HVU363A	URP	BB153 †	SOD323
Hitachi	HVU363B	URP	BB148 †	SOD323

Matsushita to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Matsushita	MA2S357	SS MINI	BB178	SOD523
Matsushita	MA2S357	SS MINI	BB187 †	SOD523
Matsushita	MA2S372	SS MINI	BB179	SOD523
Matsushita	MA2S374	SS MINI	BB182	SOD523
Matsushita	MA27V07	SS MINI SSS MINI	BB140-01	SOD523
Matsushita	MA357	S MINI	BB153	SOD323
Matsushita	MA366	S MINI	BB133	SOD323
Matsushita	MA366	S MINI	BB148	SOD323
Matsushita	MA368	S MINI	BB131	SOD323
Matsushita	MA372	S MINI	BB149	SOD323
Matsushita	MA372	S MINI	BB149A	SOD323
Matsushita	MA374	S MINI	BB164	SOD323
Matsushita	MA377	SS MINI	BB141 †	SOD523

Varicap Replacement List

Infineon to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Infineon	BB535	SOD323	BB134	SOD323
Infineon	BB535	SOD323	BB149 †	SOD323
Infineon	BB545	SOD232	BB149A †	SOD323
Infineon	BB555	SOD523	BB179B	SOD523
Infineon	BB565	SOD523	BB179	SOD523
Infineon	BB639	SOD323	BB133	SOD323
Infineon	BB639	SOD232	BB148 †	SOD323
Infineon	BB639	SOD323	BB153	SOD323
Infineon	BB640	SOD323	BB132	SOD323
Infineon	BB640	SOD323	BB152	SOD323
Infineon	BB640	SOD323	BB164	SOD323
Infineon	BB641	SOD323	BB132	SOD323
Infineon	BB641	SOD323	BB152	SOD323
Infineon	BB641	SOD323	BB164	SOD323
Infineon	BB659	SOD323	BB155 ▲	SOD323
Infineon	BB659	SOD523	BB178	SOD523
Infineon	BB664	SOD523	BB178	SOD523
Infineon	BB664	SOD523	BB187 †	SOD523
Infineon	BB669	SOD323	BB152	SOD323
Infineon	BB814	SOT23	BB201	SOT23
Infineon	BB831	SOD323	BB131	SOD323
Infineon	BB833	SOD323	BB131	SOD323
Infineon	BB835	SOD323	BB131	SOD323
Infineon	BBY51	SOT23	BB141	SOD523
Infineon	BBY51-03W	SOD523	BB142	SOD523
Infineon	BBY53	SOT143	BB143	SOD523
Infineon	BBY53-03W	SOD523	BB143	SOD523
Infineon	BBY55-03W	SOD323	BB190	SOD323
Infineon	BBY58-02V	SOD523	BB202	SOD523
Infineon	BBY66-05	SOT23	BB200 †	SOT23

Sony to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Sony	1T362	M-235	BB149	SOD323
Sony	1T362 A	M-235	BB149A †	SOD323
Sony	1T363 A	M-235	BB153 †	SOD323
Sony	1T368	M-235	BB133	SOD323
Sony	1T368 A	M-235	BB148	SOD323
Sony	1T369	M-235	BB132	SOD323
Sony	1T369	M-235	BB152 †	SOD323
Sony	1T369	M-235	BB164	SOD323
Sony	1T379	M-235	BB131	SOD323
Sony	1T397	M-235	BB152	SOD323
Sony	1T399	M-235	BB148	SOD323
Sony	1T402	M-290	BB179 B †	SOD523
Sony	1T403	M-290	BB178 †	SOD523
Sony	1T404A	M-290	BB187 †	SOD523
Sony	1T405 A	M-290	BB187	SOD523
Sony	1T406	M-290	BB182 †	SOD523
Sony	1T407	M-290	BB182B	SOD523
Sony	1T408	M-290	BB187 †	SOD523

Varicap Replacement List

Toshiba to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Toshiba	1SV214	USC	BB149	SOD323
Toshiba	1SV214	USC	BB149A	SOD323
Toshiba	1SV215	USC	BB153	SOD323
Toshiba	1SV217	USC	BB133	SOD323
Toshiba	1SV228		BB201 †	SOT23
Toshiba	1SV229	USC	BB190	SOD323
Toshiba	1SV231	USC	BB132 †	SOD323
Toshiba	1SV231	USC	BB152	SOD323
Toshiba	1SV232	USC	BB148	SOD323
Toshiba	1SV239	ESC	BB145B	SOD523
Toshiba	1SV242	USC	BB164	SOD323
Toshiba	1SV254	ESC	BB179	SOD523
Toshiba	1SV262	USC	BB133	SOD323
Toshiba	1SV269	USC	BB148	SOD323
	1SV270	USC	BB156	SOD323
Toshiba	1SV276	USC	BB151	SOD323
Toshiba	1SV277	ESC	BB142	SOD523
Toshiba	1SV278	ESC	BB179	SOD523
Toshiba	1SV279	USC	BB190	SOD323
Toshiba	1SV280	ESC	BB145	SOD523
Toshiba	1SV281	USC	BB151	SOD323
Toshiba	1SV282	ESC	BB178	SOD523
Toshiba	1SV282	ESC	BB187	SOD523
Toshiba	1SV283	ESC	BB178	SOD523
Toshiba	1SV283	ESC	BB187	SOD523
Toshiba	1SV283	ESC	BB187 †	SOD523
Toshiba	1SV284	USC	BB156	SOD323
Toshiba	1SV285	ESC	BB142 †	SOD523
Toshiba	1SV288	USC	BB152	SOD323
Toshiba	1SV290	ESC	BB182	SOD523
Toshiba	1SV290	ESC	BB182 B	SOD523
Toshiba	1SV293	USC	BB151	SOD323
Toshiba	1SV293	ESC	BB190 †	SOD523
Toshiba	1SV305	ESC	BB202	SOD523
Toshiba	1SV314	ESC	BB143	SOD523
Toshiba	1SV329	ESC	BB143	SOD523

Alpha/Skyworks to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Alpha/Skyworks	SMV1236-011	SOD323	BB151	SOD323
Alpha/Skyworks	SMV1263-079	SOD523	BB143	SOD523

Toko to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Toko	KV1470	SOT23	BB200	SOT23

Bandswitch diode Replacement List

Hitachi to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Hitachi	HSC277		BA277 †	SOD523
Hitachi	HSU277		BA951	SOD323

Matsushita to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Industry standard	MA2S077		BA277	SOD523

Infineon to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Infineon	BA592		BA591	SOD323
Infineon	BA892		BA891	SOD523

Toshiba to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Toshiba	1SS314		BA591	SOD323

J-fet Replacement List

Hitachi to Philips

Manufacturer	Manufacturer Type	Closest Philips Type	Philips Case
Hitachi	2SK108	PN4392	SOT54
Hitachi	2SK147BL	PN4393	SOT54
Hitachi	2SK162-K	PN4393	SOT54
Hitachi	2SK162-L	PN4393	SOT54
Hitachi	2SK162-M	PN4393	SOT54
Hitachi	2SK162-N	PN4393	SOT54
Hitachi	2SK163-K	J113	SOT54
Hitachi	2SK163-L	J113	SOT54
Hitachi	2SK163-M	J113	SOT54
Hitachi	2SK163-N	J113	SOT54
Hitachi	2SK170BL	PN4393	SOT54
Hitachi	2SK170GR	PN4393	SOT54
Hitachi	2SK170V	PN4393	SOT54
Hitachi	2SK170Y	PN4393	SOT54
Hitachi	2SK197D	PMBF4416	SOT23
Hitachi	2SK197E	PMBF4416	SOT23
Hitachi	2SK2090	PMBF4416	SOT23
Hitachi	2SK209BL	PMBF4416	SOT23
Hitachi	2SK209GR	PMBF4416	SOT23
Hitachi	2SK209Y	PMBF4416	SOT23
Hitachi	2SK210BL	PMBFJ309	SOT23
Hitachi	2SK210GR	PMBF4416	SOT23
Hitachi	2SK2110	PMBF4416	SOT23
Hitachi	2SK211GR	PMBF4416	SOT23
Hitachi	2SK211Y	PMBF4416	SOT23
Hitachi	2SK212	PN4393	SOT54
Hitachi	2SK217D	PMBF4416	SOT23
Hitachi	2SK217E	PMBF4416	SOT23
Hitachi	2SK223	PN4393	SOT54
Hitachi	2SK242E	PMBF4416	SOT23
Hitachi	2SK242F	PMBF4416	SOT23
Hitachi	2SK370BL	J109	SOT54
Hitachi	2SK370GR	J109	SOT54
Hitachi	2SK370V	J109	SOT54
Hitachi	2SK381	J113	SOT54
Hitachi	2SK425	PMBF4416	SOT23
Hitachi	2SK426	PMBF4416	SOT23
Hitachi	2SK43	J113	SOT54
Hitachi	2SK435	J113	SOT54
Hitachi	2SK508	PMBFJ308	SOT23

J-fet Replacement List

Industry standard to Philips			
Manufacturer	Manufacturer Type	Closest Philips Type	Philips Case
Industry standard	2N3330	J176	SOT54
Industry standard	2N3331	J176	SOT54
Industry standard	2N4091	PN4391	SOT54
Industry standard	2N4092	PN4392	SOT54
Industry standard	2N4093	PN4393	SOT54
Industry standard	2N4220	BF245A	SOT54
Industry standard	2N4391	PN4391	SOT54
Industry standard	2N4392	PN4392	SOT54
Industry standard	2N4393	PN4393	SOT54
Industry standard	2N4416	PMBF4416	SOT54
Industry standard	2N4856	BSR56	SOT54
Industry standard	2N4857	BSR57	SOT54
Industry standard	2N4858	BSR58	SOT54
Industry standard	2N5114	J174	SOT54
Industry standard	2N5115	J175	SOT54
Industry standard	2N5116	J175	SOT54
Industry standard	2N5432	J108	SOT54
Industry standard	2N5433	J108	SOT54
Industry standard	2N5434	J109	SOT54
Industry standard	2N5457	BF245A	SOT54
Industry standard	2N5458	BF245A	SOT54
Industry standard	2N5459	BF245B	SOT54
Industry standard	2N5484	PMBF5484	SOT54
Industry standard	2N5485	PMBF5485	SOT54
Industry standard	2N5486	PMBF5486	SOT54
Industry standard	2N5638	PN4391	SOT54
Industry standard	2N5639	PN4392	SOT54
Industry standard	2N5640	PN4393	SOT54
Industry standard	2N5653	J112	SOT54
Industry standard	2N5654	J111	SOT54
Industry standard	2SJ105GR	J177	SOT54
Industry standard	40894	BFR30	SOT23
Industry standard	40895	BFR30	SOT23
Industry standard	40896	BFR30	SOT23
Industry standard	40897	BFR30	SOT23
Industry standard	BF244A	BF245A	SOT54
Industry standard	BF244B	BF245B	SOT54
Industry standard	BF244C	BF245C	SOT54
Industry standard	BF247A	J108	SOT54
Industry standard	BF247B	J108	SOT54
Industry standard	BF247C	J108	SOT54
Industry standard	BF256A	BF245A	SOT54
Industry standard	BF256B	BF245B	SOT54
Industry standard	BF256C	BF245C	SOT54
Industry standard	BF851A	BF861A	SOT23
Industry standard	BF851B	BF861B	SOT23
Industry standard	BF851C	BF861C	SOT23

J-fet Replacement List

Industry standard	BSR111	PMBFJ111	SOT23
Industry standard	BSR112	PMBFJ112	SOT23
Industry standard	BSR113	PMBFJ113	SOT23
Industry standard	BSR174	PMBFJ174	SOT23
Industry standard	BSR175	PMBFJ175	SOT23
Industry standard	BSR176	PMBFJ176	SOT23
Industry standard	BSR177	PMBFJ177	SOT23
Industry standard	J201	BF410A	SOT54
Industry standard	J202	BF410B	SOT54
Industry standard	J203	BF410C	SOT54
Industry standard	J204	BF410D	SOT54
Industry standard	J270	J177	SOT54
Industry standard	J308	J108	SOT54
Industry standard	J309	J109	SOT54
Industry standard	J310	J110	SOT54
Industry standard	MPF102	BF245A	SOT54
Industry standard	MPF4391	PN4391	SOT54
Industry standard	MPF4392	PN4392	SOT54
Industry standard	MPF4393	PN4393	SOT54
Industry standard	MPF4416	PN4416	SOT54
Industry standard	MPF970	J174	SOT54
Industry standard	MPF971	J176	SOT54
Industry standard	PZFJ108	J108	SOT54
Industry standard	PZFJ109	J109	SOT54
Industry standard	PZFJ110	J110	SOT54
Industry standard	SST111	PMBFJ111	SOT23
Industry standard	SST112	PMBFJ112	SOT23
Industry standard	SST113	PMBFJ113	SOT23
Industry standard	SST174	PMBFJ174	SOT23
Industry standard	SST175	PMBFJ175	SOT23
Industry standard	SST176	PMBFJ176	SOT23
Industry standard	SST177	PMBFJ177	SOT23
Industry standard	SST201	BFT46	SOT23
Industry standard	SST202	BFR31	SOT23
Industry standard	SST203	BFR30	SOT23
Industry standard	SST308	PMBFJ308	SOT23
Industry standard	SST309	PMBFJ309	SOT23
Industry standard	SST310	PMBFJ310	SOT23
Industry standard	SST4391	PMBF4391	SOT23
Industry standard	SST4392	PMBF4392	SOT23
Industry standard	SST4393	PMBF4393	SOT23
Industry standard	SST4416	PMBF4416	SOT23
Industry standard	SST4856	BSR56	SOT23
Industry standard	SST4857	BSR57	SOT23
Industry standard	SST4858	BSR58	SOT23
Industry standard	SST4859	BSR56	SOT23
Industry standard	SST4860	BSR57	SOT23
Industry standard	SST4861	BSR58	SOT23
Industry standard	TMPF4091	PMBF4391	SOT23
Industry standard	TMPF4092	PMBF4392	SOT23
Industry standard	TMPF4093	PMBF4393	SOT23

J-fet Replacement List

Industry standard	TMPF4391	PMBF4391	SOT23
Industry standard	TMPF4392	PMBF4392	SOT23
Industry standard	TMPF4393	PMBF4393	SOT23
Industry standard	TMPFB246A	BSR56	SOT23
Industry standard	TMPFB246B	BSR57	SOT23
Industry standard	TMPFB246C	BSR58	SOT23
Industry standard	TMPFJ111	PMBFJ111	SOT23
Industry standard	TMPFJ112	PMBFJ112	SOT23
Industry standard	TMPFJ113	PMBFJ113	SOT23
Industry standard	TMPFJ174	PMBFJ174	SOT23
Industry standard	TMPFJ175	PMBFJ175	SOT23
Industry standard	TMPFJ176	PMBFJ176	SOT23
Industry standard	TMPFJ177	PMBFJ177	SOT23

Motorola to Philips

Manufacturer	Manufacturer Type	Closest Philips Type	Philips Case
Motorola	MMBF4391	PMBF4391	SOT23
Motorola	MMBF4392	PMBF4392	SOT23
Motorola	MMBF4393	PMBF4393	SOT23
Motorola	MMBF4416	PMBF4416	SOT23
Motorola	MMBF4860	PMBFJ112	SOT23
Motorola	MMBF5484	BFR31	SOT23
Motorola	MMBFJ113	PMBFJ113	SOT23
Motorola	MMBFJ174	PMBFJ174	SOT23
Motorola	MMBFJ175	PMBFJ175	SOT23
Motorola	MMBFJ176	PMBFJ176	SOT23
Motorola	MMBFJ177	PMBFJ177	SOT23
Motorola	MMBFJ308	PMBFJ308	SOT23
Motorola	MMBFJ309	PMBFJ309	SOT23
Motorola	MMBFJ310	PMBFJ310	SOT23
Motorola	MMBFU310	PMBFJ310	SOT23

Mosfet Replacement List

Hitachi to Philips				
Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Hitachi	3SK290	CMPAK-4	BF998WR	SOT343R
Hitachi	3SK322	MPAK-4R	BF990A	SOT143
Hitachi	BB304C	CMPAK-4	BF1201WR	SOT343R
Hitachi	BB304M	MPAK-4	BF1201R	SOT143R
Hitachi	BB305C	CMPAK-4	BF1201WR	SOT343R
Hitachi	BB305M	MPAK-4	BF1201R	SOT143R
Hitachi	BB403M	MPAK-4R	BF909R	SOT143
Hitachi	BB501C	CMPAK-4	BF1202WR	SOT343R
Hitachi	BB501M	MPAK-4	BF1202R	SOT343R
Hitachi	BB502C	CMPAK-4	BF1202WR	SOT343R
Hitachi	BB502M	MPAK-4	BF1202R	SOT143R
Hitachi	BB503C	CMPAK-4	BF1202WR	SOT343R
Hitachi	BB503M	MPAK-4	BF1202R	SOT143R
Hitachi	BB601M	MPAK-4R	BF1202	SOT143
Hitachi	BIC701C	CMPAK-4	BF1105WR	SOT343R
Hitachi	BIC701M	MPAK-4	BF1105R	SOT143R
Hitachi	BIC702C	CMPAK-4	BF1105WR	SOT343R
Hitachi	BIC702M	MPAK-4	BF1105R	SOT143R
Hitachi	BIC801M	MPAK-4R	BF1105	SOT143
Hitachi	TBB1004	CMPAK-9	BF1203	SOT363

Infineon to Philips				
Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Infineon	BF1005S	SOT143	BF1105	SOT143
Infineon	BF1009S	SOT143	BF1109	SOT143
Infineon	BF1009SW	SOT343	BF1109WR	SOT343
Infineon	BF2030	SOT143	BF1101	SOT143
Infineon	BF2030R	SOT143R	BF1101R	SOT143R
Infineon	BF2030W	SOT343	BF1101WR	SOT343
Infineon	BF2040	SOT143	BF909(A)	SOT143
Infineon	BF2040W	SOT343	BF909(A)WR	SOT343
Infineon	BF998	SOT143	BF998	SOT143
Infineon	BF998W	SOT343	BF998WR	SOT343

Mosfet Replacement List

Vishay to Philips				
Manufacturer	Manufacturer Type	Manufacturer Case	Closest Philips Type	Philips Case
Vishay	BF994S	SOT143	BF994S	SOT143
Vishay	BF996S	SOT143	BF996S	SOT143
Vishay	BF998	SOT143	BF998	SOT143
Vishay	BF998R	SOT143R	BF998R	SOT143R
Vishay	BF998RW	SOT343R	BF998WR	SOT343R
Vishay	S503T	SOT143	BF909(A)	SOT143
Vishay	S503TR	SOT143R	BF909(A)R	SOT143R
Vishay	S503TRW	SOT343R	BF909(A)WR	SOT343R
Vishay	S504T	SOT143	BF904(A)	SOT143
Vishay	S504TR	SOT143R	BF904(A)R	SOT143R
Vishay	S504TRW	SOT343R	BF904(A)WR	SOT343R
Vishay	S505T	SOT143	BF1101	SOT143
Vishay	S505TR	SOT143R	BF1101R	SOT143R
Vishay	S505TRW	SOT343R	BF1101WR	SOT343R
Vishay	S595T	SOT143	BF1105	SOT143
Vishay	S595TR	SOT143R	BF1105R	SOT143R
Vishay	S595TRW	SOT343R	BF1105WR	SOT343R
Vishay	S949T	SOT143	BF1109	SOT143
Vishay	S949TR	SOT143R	BF1109R	SOT143R
Vishay	S949TRW	SOT343R	BF1109WR	SOT343R
Vishay	S974T	SOT143	BF1109	SOT143
Vishay	S974TR	SOT143R	BF1109R	SOT143R
Vishay	S974TRW	SOT343R	BF1109WR	SOT343R
Vishay	TSD54040	SOT363	BF1102	SOT363

Pin diode Replacement List

CC = common cathode, CA = common anode, S = single, SS = series

Alpha/Skyworks to Philips						
Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Alpha/Skyworks	SMP1302-004	SOT23	CC	BAP50-05 †	SOT23	CC
Alpha/Skyworks	SMP1302-005	SOT23	SS	BAP50-04 †	SOT23	SS
Alpha/Skyworks	SMP1302-011	SOD323	S	BAP50-03 †	SOD323	S
Alpha/Skyworks	SMP1302-074	SOT323	CC	BAP50-05W †	SOT323	CC
Alpha/Skyworks	SMP1302-079	SOD523	S	BAP50-02 †	SOD523	S
Alpha/Skyworks	SMP1302-075	SOT323	SS	BAP50-04W †	SOT323	SS
Alpha/Skyworks	SMP1304-011	SOD323	S	BAP70-03	SOD323	S
Alpha/Skyworks	SMP1304-001	SOT23	S	BAP70-03	SOD323	S
Alpha/Skyworks	SMP1307-001	SOT23	S	BAP70-03	SOD323	S
Alpha/Skyworks	SMP1307-011	SOT23	S	BAP70-03	SOD323	S
Alpha/Skyworks	SMP1320-011	SOD323	S	BAP65-03	SOD323	S
Alpha/Skyworks	SMP1320-074	SC70	CC	BAP65-05W	SOT323	CC
Alpha/Skyworks	SMP1320-004	SOT23	CC	BAP65-05	SOT23	CC
Alpha/Skyworks	SMP1321-001	SOT23	S	BAP1321-03	SOD323	S
Alpha/Skyworks	SMP1321-005	SOT23	SS	BAP1321-04 †	SOT23	SS
Alpha/Skyworks	SMP1321-011	SOD323	S	BAP1321-03 †	SOD323	S
Alpha/Skyworks	SMP1321-075	SC70	SS	BAP1321-04	SOT23	SS
Alpha/Skyworks	SMP1321-079	SOD523	S	BAP1321-02 †	SOD523	S
Alpha/Skyworks	SMP1322-074	SOT323	CC	BAP65-05W †	SOT323	CC
Alpha/Skyworks	SMP1322-004	SOT23	CC	BAP65-05 †	SOT23	CC
Alpha/Skyworks	SMP1322-011	SOD323	S	BAP65-03 †	SOD323	S
Alpha/Skyworks	SMP1322-079	SOD523	S	BAP65-02 †	SOD523	S
Alpha/Skyworks	SMP1340-011	SOD323	S	BAP63-03	SOD323	S
Alpha/Skyworks	SMP1340-079	SC79	S	BAP63-02	SOD523	S
Alpha/Skyworks	SMP1352-011	SOD323	S	BAP64-03 †	SOD323	S
Alpha/Skyworks	SMP1352-079	SOD523	S	BAP64-02 †	SOD523	S

Agilent to Philips						
Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Agilent	HSMP3800	SOT23	S	BAP70-03 ▲	SOD323	S
Agilent	HSMP3802	SOT23	SS	BAP50-04	SOT23	SS
Agilent	HSMP3804	SOT23	CC	BAP50-05	SOT23	CC
Agilent	HSMP3810	SOT23	S	BAP50-03 ▲	SOD323	S
Agilent	HSMP3814	SOT23	CC	BAP50-05	SOT23	CC
Agilent	HSMP381B	SOT323	S	BAP50-03 ▲	SOD323	S
Agilent	HSMP381C	SOT323	SS	BAP50-05 ▲	SOT23	SS
Agilent	HSMP381F	SOT323	CC	BAP64-05W	SOT323	CC
Agilent	HSMP3820	SOT23	S	BAP1321-03 ▲	SOD323	S
Agilent	HSMP3822	SOT23	SS	BAP1321-04 †	SOT23	SS
Agilent	HSMP3830	SOT23	S	BAP64-03 ▲	SOD323	S
Agilent	HSMP3832	SOT23	SS	BAP64-04 †	SOT23	SS
Agilent	HSMP3833	SOT23	CA	BAP64-06 †	SOT23	CA
Agilent	HSMP3834	SOT23	CC	BAP64-05 †	SOT23	CC
Agilent	HSMP3860	SOT23	S	BAP50-03 ▲	SOD323	S
Agilent	HSMP3862	SOT23	SS	BAP50-04 †	SOT23	SS
Agilent	HSMP3864	SOT23	CC	BAP50-05 †	SOT23	CC
Agilent	HSMP386B	SOT323	S	BAP50-02 ▲	SOD523	S

Pin diode Replacement List

Pin diode Replacement List

CC = common cathode, CA = common anode, S = single, SS = series

Agilent	HSMP386E	SOT323	SS	BAP50-04W †	SOT323	SS
Agilent	HSMP386L	SOT323	CC	BAP50-05W †	SOT323	CC
Agilent	HSMP3880	SOT23	S	BAP51-03 ▲	SOD323	S
Agilent	HSMP3890	SOT23	S	BAP51-03 ▲	SOD323	S
Agilent	HSMP3892	SOT23	SS	BAP64-04	SOT23	SS
Agilent	HSMP3894	SOT23	CC	BAP64-05	SOT23	CC
Agilent	HSMP3895	SOT143	dual	2xBAP51-02 ▲	2xSOD523	2xS
Agilent	HSMP389B	SOT323	S	BAP51-02 ▲	SOD323	S
Agilent	HSMP389C	SOT323	SS	BAP64-04 ▲	SOT23	SS
Agilent	HSMP389F	SOT323	CC	BAP51-05W †	SOT323	CC

Infinion to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Infinion	<u>BA592</u>	SOD323	<u>S</u>	<u>BA591 †</u>	SOD323	<u>S</u>
Infinion	BA595	SOD323	S	BAP70-03 †	SOD323	S
Infinion	BA597	SOD323	S	BAP70-03	SOD323	S
Infinion	BA885	SOT23	S	BAP70-03 ▲	SOD323	S
Infinion	<u>BA892</u>	SOD523	<u>S</u>	<u>BA891 †</u>	SOD523	<u>S</u>
Infinion	BA895	SOD523	S	BAP70-02 †	SOD523	S
Infinion	BAR14-1	SOT23	SS	2xBAP70-03 ▲	2xSOD323	SS
Infinion	BAR15-1	SOT23	CC	2xBAP70-03 ▲	2xSOD323	CA
Infinion	BAR16-1	SOT23	CA	2xBAP70-03 ▲	2xSOD323	CC
Infinion	BAR17	SOT23	S	BAP50-03 ▲	SOD323	S
Infinion	BAR60	SOT143		3xBAP50-03 ▲	3xSOD323	3xS
Infinion	BAR61	SOT143		3xBAP50-03 ▲	3xSOD323	3xS
Infinion	BAR63	SOT23	S	BAP63-03 ▲	SOD323	S
Infinion	BAR63-02W	SCD80	S	BAP63-02 ▲	SOD523	S
Infinion	BAR63-03W	SOD323	S	BAP63-03	SOD323	S
Infinion	BAR63-02L	TSLP-2	S	BAP63-02 ▲	SOD523	S
Infinion	BAR63-02V	SC79	S	BAP63-02	SOD523	S
Infinion	BAR63-05	SOT23	CC	BAP63-05W ▲	SOT323	CC
Infinion	BAR63-05W	SOT323	CC	BAP63-05W	SOT323	CC
Infinion	BAR64-02W	SCD80	S	BAP64-02 ▲	SOD523	S
Infinion	BAR64-02V	SC79	S	BAP64-02 †	SOD523	S
Infinion	BAR64-03W	SOD323	S	BAP64-03 †	SOD323	S
Infinion	BAR64-04	SOT23	SS	BAP64-04 †	SOT23	SS
Infinion	BAR64-04W	SOT323	SS	BAP64-04W †	SOT323	SS
Infinion	BAR64-05	SOT23	CC	BAP64-05 †	SOT23	CC
Infinion	BAR64-05W	SOT323	CC	BAP64-05W †	SOT323	CC
Infinion	BAR64-06	SOT23	CA	BAP64-06 †	SOT23	CA
Infinion	BAR64-06W	SOT323	CA	BAP64-06W †	SOT323	CA
Infinion	BAR65-02V	SC79	S	BAP65-02 †	SOD523	S
Infinion	BAR65-02W	SCD80	S	BAP65-02 ▲	SOD523	S
Infinion	BAR65-03W	SOD323	S	BAP65-03 †	SOD323	S
Infinion	BAR66	SOT23	SS	BAP1321-04 †	SOT23	SS
Infinion	BAR67-02W	SOD523	S	BAP1321-02 †	SOD523	S
Infinion	BAR67-03W	SOD323	S	BAP1321-03 †	SOD323	S
Infinion	BAR67-02L	TSLP-2	S	BAP1321-01	SOD723	S
Infinion	BAT18	SOT23	S	BAT18 †	SOT23	S

Pin diode Replacement List

Pin diode Replacement List

CC = common cathode, CA = common anode, S = single, SS = series

Hitachi to Philips						
Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Hitachi	HVB14S	SOT323	SS	BAP50-04W †	SOT323	SS
Hitachi	HVC131	SOD523	S	BAP65-02 †	SOD523	S
Hitachi	HVD131	SOD723	S	BAP65-01 †	SOD723	S
Hitachi	HVC132	SOD523	S	BAP51-02 †	SOD523	S
Hitachi	HVD132	SOD723	S	BAP51-02	SOD523	S
Hitachi	HVD139	SOD723	S	BAP63-01	SOD723	S
Hitachi	HVD142	SOD723	S	BAP63-01	SOD723	S
Hitachi	HVU131	SOD323	S	BAP65-03 †	SOD323	S
Hitachi	HVU132	SOD323	S	BAP51-03 †	SOD323	S
Hitachi	HSC277	SOD523	S	BA277 †	SOD523	S

Matsushita to Philips						
Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Matsushita	MA4CP101A	S MINI		BAP65-03	SOD323	
Matsushita	MA4P274-1141	S MINI		BAP51-03	SOD323	
Matsushita	MA4P275-1141	S MINI		BAP65-03	SOD323	
Matsushita	MA4P275CK-287			BAP65-05	SOT23	
Matsushita	MA4P277-1141	S MINI		BAP70-03	SOD323	
Matsushita	MA4P278-287	S MINI		BAP70-03	SOD323	
Matsushita	MA4P789-1141	S MINI		BAP1321-03	SOD323	
Matsushita	MA4P789ST-287			BAP1321-04	SOT23	

Rohm to Philips						
Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Rohm	<u>1SS356</u>	<u>SOD323</u>	<u>S</u>	<u>BA591 †</u>	<u>SOD323</u>	<u>S</u>
Rohm	<u>1SS390</u>	<u>SOD523</u>	<u>S</u>	<u>BA891 †</u>	<u>SOD523</u>	<u>S</u>
Rohm	RN142G			BAP1321-03	SOD723	
Rohm	RN142S	SOD523	S	BAP1321-02	SOD523	S
Rohm	RN731V	SOD323	S	BAP50-03 †	SOD323	S
Rohm	RN739D	SOT23	SS	BAP50-04 †	SOT23	SS
Rohm	RN739F	SOT323	SS	BAP50-04W †	SOT323	SS

Sanyo to Philips						
Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Sanyo	1SV233	SOT23	S	BAP70-03 ▲	SOD323	S
Sanyo	1SV234	SOT23	SS	BAP64-04	SOT23	SS
Sanyo	1SV241	CP5	2xS	2xBAP64-02 ▲	2xSOD523	2xS
Sanyo	1SV246	SOT323	SS	BAP64-04W	SOT323	SS
Sanyo	1SV247	SOT323	S	BAP70-02 ▲	SOD523	S
Sanyo	1SV248	SOT323	S	BAP50-02 ▲	SOD523	S
Sanyo	1SV249	SOT323	SS	BAP50-04W	SOT323	SS
Sanyo	1SV250	SOT23	S	BAP50-03 ▲	SOD323	S
Sanyo	1SV251	SOT23	SS	BAP50-04	SOT23	SS
Sanyo	1SV263	SOT323	S	BAP50-02 ▲	SOD523	S

Pin diode Replacement List

Pin diode Replacement List

CC = common cathode, CA = common anode, S = single, SS = series

Sanyo	1SV264	SOT323	SS	BAP50-04W †	SOT323	SS
Sanyo	1SV266	SOT23	S	BAP50-03 ▲	SOD323	S
Sanyo	1SV267	SOT23	SS	BAP50-04 †	SOT23	SS
Sanyo	1SV294	SOT23	S	BAP70-03 ▲	SOD323	S

Toshiba to Philips

Manufacturer	Manufacturer Type	Manufacturer Case	Conf	Closest Philips Type	Philips Case	Conf
Toshiba	1SS314	SOD323	S	<u>BA591</u> †	SOD323	S
Toshiba	1SS381	SOD523	S	<u>BA277</u> †	SOD523	S
Toshiba	1SV172	SOT23	SS	BAP50-04 †	SOT23	SS
Toshiba	1SV252	SOT323	SS	BAP50-04W †	SOT323	SS
Toshiba	1SV271	SOD323	S	BAP50-03 †	SOD323	S
Toshiba	1SV307	SOD323	S	BAP51-03 †	SOD323	S
Toshiba	1SV308	SOD523	S	BAP51-02 †	SOD523	S
Toshiba	JDP2S01E	SOD523	S	BAP65-02 †	SOD523	S
Toshiba	JDP2S02S	SOD723	S	BAP63-01 †	SOD723	S
Toshiba	JDP2S02T	SOD523	S	BAP63-02 †	SOD523	S
Toshiba	JDP2S01U	SOD323	S	BAP65-03 †	SOD323	S
Toshiba	JDP2S04E	SOD523	S	BAP50-02 †	SOD523	S

Pin diode Replacement List

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Toshiba	1SS314	BA591 †
Rohm	1SS356	BA591 †
Toshiba	1SS381	BA277 †
Rohm	1SS390	BA891 †
Toshiba	1SV172	BAP50-04 †
Toshiba	1SV214	BB149
Toshiba	1SV214	BB149A
Toshiba	1SV215	BB153
Toshiba	1SV217	BB133
Toshiba	1SV228	BB201 †
Toshiba	1SV229	BB190
Toshiba	1SV231	BB132 †
Toshiba	1SV231	BB152
Toshiba	1SV232	BB148
Sanyo	1SV233	BAP70-03 ▲
Sanyo	1SV234	BAP64-04
Toshiba	1SV239	BB145B
Sanyo	1SV241	2xBAP64-02 ▲
Toshiba	1SV242	BB164
Sanyo	1SV246	BAP64-04W
Sanyo	1SV247	BAP70-02 ▲
Sanyo	1SV248	BAP50-02 ▲
Sanyo	1SV249	BAP50-04W
Sanyo	1SV250	BAP50-03 ▲
Sanyo	1SV251	BAP50-04
Toshiba	1SV252	BAP50-04W †
Toshiba	1SV254	BB179
Toshiba	1SV262	BB133
Sanyo	1SV263	BAP50-02 ▲
Sanyo	1SV264	BAP50-04W †
Sanyo	1SV266	BAP50-03 ▲
Sanyo	1SV267	BAP50-04 †
Toshiba	1SV269	BB148
Toshiba	1SV270	BB156
Toshiba	1SV271	BAP50-03 †
Toshiba	1SV276	BB151
Toshiba	1SV277	BB142
Toshiba	1SV278	BB179
Toshiba	1SV279	BB190
Toshiba	1SV280	BB145
Toshiba	1SV281	BB151
Toshiba	1SV282	BB178
Toshiba	1SV282	BB187
Toshiba	1SV283	BB178
Toshiba	1SV283	BB187
Toshiba	1SV283	BB187 †
Toshiba	1SV284	BB156
Toshiba	1SV285	BB142 †
Toshiba	1SV288	BB152

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Toshiba	1SV290	BB182
Toshiba	1SV290	BB182 B
Toshiba	1SV293	BB151
Toshiba	1SV293	BB190 †
Sanyo	1SV294	BAP70-03 ▲
Toshiba	1SV305	BB202
Toshiba	1SV307	BAP51-03 †
Toshiba	1SV308	BAP51-02 †
Toshiba	1SV314	BB143
Toshiba	1SV329	BB143
Sony	1T362	BB149
Sony	1T362 A	BB149A †
Sony	1T363 A	BB153 †
Sony	1T368	BB133
Sony	1T368 A	BB148
Sony	1T369	BB132
Sony	1T369	BB152 †
Sony	1T369	BB164
Sony	1T379	BB131
Sony	1T397	BB152
Sony	1T399	BB148
Sony	1T402	BB179 B †
Sony	1T403	BB178 †
Sony	1T404A	BB187 †
Sony	1T405 A	BB187
Sony	1T406	BB182 †
Sony	1T407	BB182B
Sony	1T408	BB187 †
Indust. standard	2N3330	J176
Indust. standard	2N3331	J176
Indust. standard	2N4091	PN4391
Indust. standard	2N4092	PN4392
Indust. standard	2N4093	PN4393
Indust. standard	2N4220	BF245A
Indust. standard	2N4391	PN4391
Indust. standard	2N4392	PN4392
Indust. standard	2N4393	PN4393
Indust. standard	2N4416	PMBF4416
Indust. standard	2N4856	BSR56
Indust. standard	2N4857	BSR57
Indust. standard	2N4858	BSR58
Indust. standard	2N5114	J174
Indust. standard	2N5115	J175
Indust. standard	2N5116	J175
Indust. standard	2N5432	J108
Indust. standard	2N5433	J108
Indust. standard	2N5434	J109
Indust. standard	2N5457	BF245A
Indust. standard	2N5458	BF245A

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Indust. standard	2N5459	BF245B
Indust. standard	2N5484	PMBF5484
Indust. standard	2N5485	PMBF5485
Indust. standard	2N5486	PMBF5486
Indust. standard	2N5638	PN4391
Indust. standard	2N5639	PN4392
Indust. standard	2N5640	PN4393
Indust. standard	2N5653	J112
Indust. standard	2N5654	J111
NEC	2SC4092	BFG67/XR
NEC	2SC4093	BFG67/XR
NEC	2SC4094	BFG520/XR
NEC	2SC4095	BFG520/XR
NEC	2SC4182	BFS17W
NEC	2SC4184	BFS17W
NEC	2SC4185	BFS17W
NEC	2SC4186	BFR92AW
NEC	2SC4226	PRF957
NEC	2SC4227	BFQ67W
NEC	2SC4228	BFS505
Toshiba	2SC4247	BFR92AW
Toshiba	2SC4248	BFR92AW
Toshiba	2SC4315	BFG520/XR
Toshiba	2SC4320	BFG520/XR
Toshiba	2SC4321	BFQ67W
Toshiba	2SC4325	BFS505
Toshiba	2SC4394	PRF957
Hitachi	2SC4463	BF547W
NEC	2SC4536	BFQ19
Hitachi	2SC4537	BFR93AW
Hitachi	2SC4592	BFG520/XR
Hitachi	2SC4593	BFS520
NEC	2SC4703	BFQ19
Hitachi	2SC4784	BFS505
Hitachi	2SC4807	BFQ18A
Toshiba	2SC4842	BFG540W/XR
Hitachi	2SC4899	BFS505
Hitachi	2SC4900	BFG520/XR
Hitachi	2SC4901	BFS520
Hitachi	2SC4988	BFQ540
NEC	2SC5011	BFG540W/XR
NEC	2SC5012	BFG540W/XR
Toshiba	2SC5065	PRF957
Toshiba	2SC5085	PRF957
Toshiba	2SC5087	BFG520/XR
Toshiba	2SC5088	BFG540W/XR
Toshiba	2SC5090	BFS520
Toshiba	2SC5092	BFG520/XR
Toshiba	2SC5095	BFS505

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Toshiba	2SC5107	BFS505
Toshiba	2SC5463	BFQ67W
Hitachi	2SC5593	BFG410W
Hitachi	2SC5594	BFG425W
Hitachi	2SC5623	BFG410W
Hitachi	2SC5624	BFG425W
Hitachi	2SC5631	BFQ540
Indust. standard	2SJ105GR	J177
Hitachi	2SK108	PN4392
Hitachi	2SK147BL	PN4393
Hitachi	2SK162-K	PN4393
Hitachi	2SK162-L	PN4393
Hitachi	2SK162-M	PN4393
Hitachi	2SK162-N	PN4393
Hitachi	2SK163-K	J113
Hitachi	2SK163-L	J113
Hitachi	2SK163-M	J113
Hitachi	2SK163-N	J113
Hitachi	2SK170BL	PN4393
Hitachi	2SK170GR	PN4393
Hitachi	2SK170V	PN4393
Hitachi	2SK170Y	PN4393
Hitachi	2SK197D	PMBF4416
Hitachi	2SK197E	PMBF4416
Hitachi	2SK2090	PMBF4416
Hitachi	2SK209BL	PMBF4416
Hitachi	2SK209GR	PMBF4416
Hitachi	2SK209Y	PMBF4416
Hitachi	2SK210BL	PMBFJ309
Hitachi	2SK210GR	PMBF4416
Hitachi	2SK2110	PMBF4416
Hitachi	2SK211GR	PMBF4416
Hitachi	2SK211Y	PMBF4416
Hitachi	2SK212	PN4393
Hitachi	2SK217D	PMBF4416
Hitachi	2SK217E	PMBF4416
Hitachi	2SK223	PN4393
Hitachi	2SK242E	PMBF4416
Hitachi	2SK242F	PMBF4416
Hitachi	2SK370BL	J109
Hitachi	2SK370GR	J109
Hitachi	2SK370V	J109
Hitachi	2SK381	J113
Hitachi	2SK425	PMBF4416
Hitachi	2SK426	PMBF4416
Hitachi	2SK43	J113
Hitachi	2SK435	J113
Hitachi	2SK508	PMBFJ308
Hitachi	3SK290	BF998WR

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Hitachi	3SK322	BF990A
Indust. standard	40894	BFR30
Indust. standard	40895	BFR30
Indust. standard	40896	BFR30
Indust. standard	40897	BFR30
Infineon	BA592	BA591
Infineon	BA592	BA591 †
Infineon	BA595	BAP70-03 †
Infineon	BA597	BAP70-03
Infineon	BA885	BAP70-03 ▲
Infineon	BA892	BA891
Infineon	BA892	BA891 †
Infineon	BA895	BAP70-02 †
Infineon	BAR14-1	2xBAP70-03 ▲
Infineon	BAR15-1	2xBAP70-03 ▲
Infineon	BAR16-1	2xBAP70-03 ▲
Infineon	BAR17	BAP50-03 ▲
Infineon	BAR60	3xBAP50-03 ▲
Infineon	BAR61	3xBAP50-03 ▲
Infineon	BAR63	BAP63-03 ▲
Infineon	BAR63-02L	BAP63-02 ▲
Infineon	BAR63-02V	BAP63-02
Infineon	BAR63-02W	BAP63-02 ▲
Infineon	BAR63-03W	BAP63-03
Infineon	BAR63-05	BAP63-05W ▲
Infineon	BAR63-05W	BAP63-05W
Infineon	BAR64-02V	BAP64-02 †
Infineon	BAR64-02W	BAP64-02 † s
Infineon	BAR64-03W	BAP64-03 †
Infineon	BAR64-04	BAP64-04 †
Infineon	BAR64-04W	BAP64-04W †
Infineon	BAR64-05	BAP64-05 †
Infineon	BAR64-05W	BAP64-05W †
Infineon	BAR64-06	BAP64-06 †
Infineon	BAR64-06W	BAP64-06W †
Infineon	BAR65-02V	BAP65-02 †
Infineon	BAR65-02W	BAP65-02 † s
Infineon	BAR65-03W	BAP65-03 †
Infineon	BAR66	BAP1321-04 †
Infineon	BAR67-02L	BAP1321-01
Infineon	BAR67-02W	BAP1321-02 †
Infineon	BAR67-03W	BAP1321-03 †
Infineon	BAT18	BAT18 †
Hitachi	BB304C	BF1201WR
Hitachi	BB304M	BF1201R
Hitachi	BB305C	BF1201WR
Hitachi	BB305M	BF1201R
Hitachi	BB403M	BF909R
Hitachi	BB501C	BF1202WR

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Hitachi	BB501M	BF1202R
Hitachi	BB502C	BF1202WR
Hitachi	BB502M	BF1202R
Hitachi	BB503C	BF1202WR
Hitachi	BB503M	BF1202R
Infineon	BB535	BB134
Infineon	BB535	BB149 †
Infineon	BB545	BB149A †
Infineon	BB555	BB179B
Infineon	BB565	BB179
Hitachi	BB601M	BF1202
Infineon	BB639	BB133
Infineon	BB639	BB148 †
Infineon	BB639	BB153
Infineon	BB640	BB132
Infineon	BB640	BB152
Infineon	BB640	BB164
Infineon	BB641	BB132
Infineon	BB641	BB152
Infineon	BB641	BB164
Infineon	BB659	BB155 ▲
Infineon	BB659	BB178
Infineon	BB664	BB178
Infineon	BB664	BB187 †
Infineon	BB669	BB152
Infineon	BB814	BB201
Infineon	BB831	BB131
Infineon	BB833	BB131
Infineon	BB835	BB131
Infineon	BBY51	BB141
Infineon	BBY51-03W	BB142
Infineon	BBY53	BB143
Infineon	BBY53-03W	BB143
Infineon	BBY55-03W	BB190
Infineon	BBY58-02V	BB202
Infineon	BBY66-05	BB200 †
Infineon	BF1005S	BF1105
Infineon	BF1009S	BF1109
Infineon	BF1009SW	BF1109WR
Infineon	BF2030	BF1101
Infineon	BF2030R	BF1101R
Infineon	BF2030W	BF1101WR
Infineon	BF2040	BF909(A)
Infineon	BF2040W	BF909(A)WR
Indust. standard	BF244A	BF245A
Indust. standard	BF244B	BF245B
Indust. standard	BF244C	BF245C
Indust. standard	BF247A	J108
Indust. standard	BF247B	J108

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Indust. standard	BF247C	J108
Indust. standard	BF256A	BF245A
Indust. standard	BF256B	BF245B
Indust. standard	BF256C	BF245C
Infineon	BF770A	BFR93A
Infineon	BF771	PBR951
Infineon	BF771W	BFS540
Infineon	BF772	BFG540
Infineon	BF775	BFR92A
Infineon	BF775A	BFR92A
Infineon	BF775W	BFR92AW
Infineon	BF799	BF747
Infineon	BF799	BF747
Infineon	BF799W	BF547W
Indust. standard	BF851A	BF861A
Indust. standard	BF851B	BF861B
Indust. standard	BF851C	BF861C
Vishay	BF994S	BF994S
Vishay	BF996S	BF996S
Infineon	BF998	BF998
Vishay	BF998	BF998
Vishay	BF998R	BF998R
Vishay	BF998RW	BF998WR
Infineon	BF998W	BF998WR
Infineon	BFG135A	BFG135
Infineon	BFG193	BFG198
Infineon	BFG194	BFG31
Infineon	BFG196	BFG541
Infineon	BFG19S	BFG97
Infineon	BFG235	BFG135
Infineon	BFP180	BFG505/X
Infineon	BFP181	BFG67/X
Infineon	BFP182	BFG67/X
Infineon	BFP182R	BFG67/XR
Infineon	BFP183	BFG520/X
Infineon	BFP183R	BFG520/XR
Infineon	BFP193	BFG540/X
Infineon	BFP193W	BFG540W/XR
Infineon	BFP196W	BFG540W/XR
Infineon	BFP280	BFG505/X
Infineon	BFP405	BFG410W
Infineon	BFP420	BFG425W
Infineon	BFP450	BFG480W
Infineon	BFP520	BFU510
Infineon	BFP540	BFU540
Infineon	BFP81	BFG92A/X
Infineon	BFP93A	BFG93A/X
Infineon	BFQ193	BFQ540
Infineon	BFQ19S	BFQ19

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Infineon	<i>BFR106</i>	BFR106
Infineon	<i>BFR180</i>	BFR505
Infineon	<i>BFR180W</i>	BFS505
Infineon	<i>BFR181</i>	BFR520
Infineon	<i>BFR181W</i>	BFS520
Infineon	<i>BFR182</i>	PBR941
Infineon	<i>BFR182W</i>	PRF947
Infineon	<i>BFR183</i>	PBR951
Infineon	<i>BFR183W</i>	PRF957
Infineon	<i>BFR193</i>	PBR951
Infineon	<i>BFR193W</i>	PRF957
Infineon	<i>BFR35AP</i>	BFR92A
Motorola	<i>BFR92AL</i>	BFR92A
Infineon	<i>BFR92P</i>	BFR92A
Infineon	<i>BFR92W</i>	BFR92AW
Infineon	<i>BFR93A</i>	BFR93A
Motorola	<i>BFR93AL</i>	BFR93A
Infineon	<i>BFR93AW</i>	BFR93AW
Motorola	<i>BFS17L</i>	BFS17
Motorola	<i>BFS17L</i>	BFS17
Infineon	<i>BFS17P</i>	BFS17A
Infineon	<i>BFS17W</i>	BFS17W
Infineon	<i>BFS481</i>	BFM505
Infineon	<i>BFS483</i>	BFM520
Infineon	<i>BFT92</i>	BFT92
Infineon	<i>BFT93</i>	BFT93
Infineon	<i>BGB540</i>	BGU2003
Hitachi	<i>BIC701C</i>	BF1105WR
Hitachi	<i>BIC701M</i>	BF1105R
Hitachi	<i>BIC702C</i>	BF1105WR
Hitachi	<i>BIC702M</i>	BF1105R
Hitachi	<i>BIC801M</i>	BF1105
Indust. standard	<i>BSR111</i>	PMBFJ111
Indust. standard	<i>BSR112</i>	PMBFJ112
Indust. standard	<i>BSR113</i>	PMBFJ113
Indust. standard	<i>BSR174</i>	PMBFJ174
Indust. standard	<i>BSR175</i>	PMBFJ175
Indust. standard	<i>BSR176</i>	PMBFJ176
Indust. standard	<i>BSR177</i>	PMBFJ177
Infineon	<i>CMY91</i>	BGA2022
Agilent	<i>HBFP0405</i>	BFG410W
Agilent	<i>HBFP0420</i>	BFG425W
Agilent	<i>HBFP0450</i>	BFG480W
Hitachi	<i>HSC277</i>	BA277 †
Agilent	<i>HSMP3800</i>	BAP70-03 ▲
Agilent	<i>HSMP3802</i>	BAP50-04
Agilent	<i>HSMP3804</i>	BAP50-05
Agilent	<i>HSMP3810</i>	BAP50-03 ▲
Agilent	<i>HSMP3814</i>	BAP50-05

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Agilent	HSMP381B	BAP50-03 ▲
Agilent	HSMP381C	BAP50-05 ▲
Agilent	HSMP381F	BAP64-05W
Agilent	HSMP3820	BAP1321-03 ▲
Agilent	HSMP3822	BAP1321-04 †
Agilent	HSMP3830	BAP64-03 ▲
Agilent	HSMP3832	BAP64-04 †
Agilent	HSMP3833	BAP64-06 †
Agilent	HSMP3834	BAP64-05 †
Agilent	HSMP3860	BAP50-03 ▲
Agilent	HSMP3862	BAP50-04 †
Agilent	HSMP3864	BAP50-05 †
Agilent	HSMP386B	BAP50-02 ▲
Agilent	HSMP386E	BAP50-04W †
Agilent	HSMP386L	BAP50-05W †
Agilent	HSMP3880	BAP51-03 ▲
Agilent	HSMP3890	BAP51-03 ▲
Agilent	HSMP3892	BAP64-04
Agilent	HSMP3894	BAP64-05
Agilent	HSMP3895	2xBAP51-02 ▲
Agilent	HSMP389B	BAP51-02 ▲
Agilent	HSMP389C	BAP64-04 ▲
Agilent	HSMP389F	BAP51-05W †
Hitachi	HSU277	BA951
Hitachi	HVB14S	BAP50-04W †
Hitachi	HVC131	BAP65-02 †
Hitachi	HVC132	BAP51-02 †
Hitachi	HVC200A	BB178
Hitachi	HVC200A	BB187
Hitachi	HVC202A	BB179 †
Hitachi	HVC202B	BB179B
Hitachi	HVC300A	BB182 †
Hitachi	HVC300A	BB182
Hitachi	HVC300B	BB182 †
Hitachi	HVC300B	BB182B
Hitachi	HVC306A	BB187 †
Hitachi	HVC306B	BB187
Hitachi	HVC355	BB145 †
Hitachi	HVC355B	BB145B †
Hitachi	HVC359	BB202 †
Hitachi	HVC363A	BB178 †
Hitachi	HVC369B	BB143
Hitachi	HVC372B	BB151
Hitachi	HVD131	BAP65-01 †
Hitachi	HVD132	BAP51-02
Hitachi	HVD139	BAP63-01
Hitachi	HVD142	BAP63-01
Hitachi	HVU131	BAP65-03 †
Hitachi	HVU132	BAP51-03 †

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Hitachi	HVU200A	BB133
Hitachi	HVU202(A)	BB149
Hitachi	HVU202(A)	BB149A
Hitachi	HVU202A	BB134
Hitachi	HVU300A	BB132
Hitachi	HVU300A	BB152 †
Hitachi	HVU300A	BB164
Hitachi	HVU306A	BB133
Hitachi	HVU307	BB148
Hitachi	HVU315	BB148 †
Hitachi	HVU316	BB131
Hitachi	HVU356	BB155
Hitachi	HVU357	BB190
Hitachi	HVU363A	BB133
Hitachi	HVU363A	BB148 †
Hitachi	HVU363A	BB153 †
Hitachi	HVU363B	BB148 †
Agilent	INA-51063	BGA2001
Indust. standard	J201	BF410A
Indust. standard	J202	BF410B
Indust. standard	J203	BF410C
Indust. standard	J204	BF410D
Indust. standard	J270	J177
Indust. standard	J308	J108
Indust. standard	J309	J109
Indust. standard	J310	J110
Toshiba	JDP2S01E	BAP65-02 †
Toshiba	JDP2S01U	BAP65-03 †
Toshiba	JDP2S02S	BAP63-01 †
Toshiba	JDP2S02T	BAP63-02 †
Toshiba	JDP2S04E	BAP50-02 †
Toko	KV1470	BB200
Matsushita	MA27V07	BB140-01
Indust. standard	MA2S077	BA277
Matsushita	MA2S357	BB178
Matsushita	MA2S357	BB187 †
Matsushita	MA2S372	BB179
Matsushita	MA2S374	BB182
Matsushita	MA357	BB153
Matsushita	MA366	BB133
Matsushita	MA366	BB148
Matsushita	MA368	BB131
Matsushita	MA372	BB149
Matsushita	MA372	BB149A
Matsushita	MA374	BB164
Matsushita	MA377	BB141 †
Matsushita	MA4CP101A	BAP65-03
Matsushita	MA4P274-1141	BAP51-03
Matsushita	MA4P275-1141	BAP65-03

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Matsushita	MA4P275CK-28	BAP65-05
Matsushita	MA4P277-1141	BAP70-03
Matsushita	MA4P278-287	BAP70-03
Matsushita	MA4P789-1141	BAP1321-03
Matsushita	MA4P789ST-28	BAP1321-04
Motorola	MMBF4391	PMBF4391
Motorola	MMBF4392	PMBF4392
Motorola	MMBF4393	PMBF4393
Motorola	MMBF4416	PMBF4416
Motorola	MMBF4860	PMBFJ112
Motorola	MMBF5484	BFR31
Motorola	MMBFJ113	PMBFJ113
Motorola	MMBFJ174	PMBFJ174
Motorola	MMBFJ175	PMBFJ175
Motorola	MMBFJ176	PMBFJ176
Motorola	MMBFJ177	PMBFJ177
Motorola	MMBFJ308	PMBFJ308
Motorola	MMBFJ309	PMBFJ309
Motorola	MMBFJ310	PMBFJ310
Motorola	MMBFU310	PMBFJ310
Motorola	MMBR5031L	BFS17
Motorola	MMBR5179L	BFS17A
Motorola	MMBR571L	PBR951
Motorola	MMBR901L	BFR92A
Motorola	MMBR911L	BFR93A
Motorola	MMBR920L	BFR93A
Motorola	MMBR931L	BFT25A
Motorola	MMBR941BL	PBR941
Motorola	MMBR941L	PBR941
Motorola	MMBR951AL	PBR951
Motorola	MMBR951L	PBR951
Indust. standard	MPF102	BF245A
Indust. standard	MPF4391	PN4391
Indust. standard	MPF4392	PN4392
Indust. standard	MPF4393	PN4393
Indust. standard	MPF4416	PN4416
Indust. standard	MPF970	J174
Indust. standard	MPF971	J176
Motorola	MRF577	PRF957
Motorola	MRF5811L	BFG93A/X
Motorola	MRF917	BFQ67W
Motorola	MRF927	BFS25A
Motorola	MRF9411L	BFG520/X
Motorola	MRF947	BFS520
Motorola	MRF947A	PRF947
Motorola	MRF9511L	BFG540/X
Motorola	MRF957	PRF957
Toshiba	MT4S34U	BFG410W
Motorola	PRF947B	PRF947

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Indust. standard	PZFJ108	J108
Indust. standard	PZFJ109	J109
Indust. standard	PZFJ110	J110
Rohm	RN142G	BAP1321-03
Rohm	RN142S	BAP1321-02
Rohm	RN731V	BAP50-03 †
Rohm	RN739D	BAP50-04 †
Rohm	RN739F	BAP50-04W †
Vishay	S503T	BF909(A)
Vishay	S503TR	BF909(A)R
Vishay	S503TRW	BF909(A)WR
Vishay	S504T	BF904(A)
Vishay	S504TR	BF904(A)R
Vishay	S504TRW	BF904(A)WR
Vishay	S505T	BF1101
Vishay	S505TR	BF1101R
Vishay	S505TRW	BF1101WR
Vishay	S595T	BF1105
Vishay	S595TR	BF1105R
Vishay	S595TRW	BF1105WR
Vishay	S949T	BF1109
Vishay	S949TR	BF1109R
Vishay	S949TRW	BF1109WR
Vishay	S974T	BF1109
Vishay	S974TR	BF1109R
Vishay	S974TRW	BF1109WR
Alpha/Skyworks	SMP1302-004	BAP50-05 †
Alpha/Skyworks	SMP1302-005	BAP50-04 †
Alpha/Skyworks	SMP1302-011	BAP50-03 †
Alpha/Skyworks	SMP1302-074	BAP50-05W †
Alpha/Skyworks	SMP1302-075	BAP50-04W †
Alpha/Skyworks	SMP1302-079	BAP50-02 †
Alpha/Skyworks	SMP1304-001	BAP70-03
Alpha/Skyworks	SMP1304-011	BAP70-03
Alpha/Skyworks	SMP1307-001	BAP70-03
Alpha/Skyworks	SMP1307-011	BAP70-03
Alpha/Skyworks	SMP1320-004	BAP65-05
Alpha/Skyworks	SMP1320-011	BAP65-03
Alpha/Skyworks	SMP1320-074	BAP65-05W
Alpha/Skyworks	SMP1321-001	BAP1321-03
Alpha/Skyworks	SMP1321-005	BAP1321-04 †
Alpha/Skyworks	SMP1321-011	BAP1321-03 †
Alpha/Skyworks	SMP1321-075	BAP1321-04
Alpha/Skyworks	SMP1321-079	BAP1321-02 †
Alpha/Skyworks	SMP1322-004	BAP65-05 †
Alpha/Skyworks	SMP1322-011	BAP65-03 †
Alpha/Skyworks	SMP1322-074	BAP65-05W †
Alpha/Skyworks	SMP1322-079	BAP65-02 †
Alpha/Skyworks	SMP1340-011	BAP63-03

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
Alpha/Skyworks	SMP1340-079	BAP63-02
Alpha/Skyworks	SMP1352-011	BAP64-03 †
Alpha/Skyworks	SMP1352-079	BAP64-02 †
Alpha/Skyworks	SMV1236-011	BB151
Alpha/Skyworks	SMV1263-079	BB143
Indust. standard	SST111	PMBFJ111
Indust. standard	SST112	PMBFJ112
Indust. standard	SST113	PMBFJ113
Indust. standard	SST174	PMBFJ174
Indust. standard	SST175	PMBFJ175
Indust. standard	SST176	PMBFJ176
Indust. standard	SST177	PMBFJ177
Indust. standard	SST201	BFT46
Indust. standard	SST202	BFR31
Indust. standard	SST203	BFR30
Indust. standard	SST308	PMBFJ308
Indust. standard	SST309	PMBFJ309
Indust. standard	SST310	PMBFJ310
Indust. standard	SST4391	PMBF4391
Indust. standard	SST4392	PMBF4392
Indust. standard	SST4393	PMBF4393
Indust. standard	SST4416	PMBF4416
Indust. standard	SST4856	BSR56
Indust. standard	SST4857	BSR57
Indust. standard	SST4858	BSR58
Indust. standard	SST4859	BSR56
Indust. standard	SST4860	BSR57
Indust. standard	SST4861	BSR58
Hitachi	TBB1004	BF1203
Indust. standard	TMPF4091	PMBF4391
Indust. standard	TMPF4092	PMBF4392
Indust. standard	TMPF4093	PMBF4393
Indust. standard	TMPF4391	PMBF4391
Indust. standard	TMPF4392	PMBF4392
Indust. standard	TMPF4393	PMBF4393
Indust. standard	TMPFB246A	BSR56
Indust. standard	TMPFB246B	BSR57
Indust. standard	TMPFB246C	BSR58
Indust. standard	TMPFJ111	PMBFJ111
Indust. standard	TMPFJ112	PMBFJ112
Indust. standard	TMPFJ113	PMBFJ113
Indust. standard	TMPFJ174	PMBFJ174
Indust. standard	TMPFJ175	PMBFJ175
Indust. standard	TMPFJ176	PMBFJ176
Indust. standard	TMPFJ177	PMBFJ177
Vishay	TSDF54040	BF1102
NEC	uPC2709	BGA2709
NEC	uPC2711	BGA2711
NEC	uPC2712	BGA2712

x-ref

Alphabetical by Manufacturer Type

Manufacturer	Manufact. Type	Closest Philips
NEC	<i>uPC2745</i>	BGA2001
NEC	<i>uPC2746</i>	BGA2001
NEC	<i>uPC2748</i>	BGA2748
NEC	<i>uPC2771</i>	BGA2771
NEC	<i>uPC8112</i>	BGA2022

No-Xref

Alpha/Skyworks/betelical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
Toshiba	1SS268	None
Toshiba	1SS269	None
Toshiba	1SS312	None
Toshiba	1SS313	None
Toshiba	1SS364	None
Sanyo	1SV234	None
Toshiba	1SV237	None
Sanyo	1SV241	None
Sanyo	1SV246	None
Sanyo	1SV265	None
Sanyo	1SV268	None
Sanyo	1SV272	None
Sanyo	1SV298	None
Sanyo	1SV315	None
Sanyo	1SV316	None
Toshiba	2SA1245	None
Hitachi	2SA1960	None
Hitachi	2SC1342	None
Hitachi	2SC1906	None
Hitachi	2SC1907	None
NEC	2SC2351	None
Hitachi	2SC2471	None
Toshiba	2SC2498	None
Hitachi	2SC2512	None
NEC	2SC2570A	None
Hitachi	2SC2619	None
Hitachi	2SC2620	None
Toshiba	2SC2644	None
Hitachi	2SC2732	None
Hitachi	2SC2734	None
Hitachi	2SC2735	None
Hitachi	2SC2736	None
Toshiba	2SC2753	None
Hitachi	2SC2776	None
Toshiba	2SC3011	None
Toshiba	2SC3098	None
Toshiba	2SC3099	None
Hitachi	2SC3127	None
Hitachi	2SC3128	None
Toshiba	2SC3268	None
Hitachi	2SC3338	None
NEC	2SC3355	None
NEC	2SC3356	None
NEC	2SC3357	None
Hitachi	2SC3391	None
Toshiba	2SC3429	None
Hitachi	2SC3494	None
Hitachi	2SC3510	None
Hitachi	2SC3512	None
Hitachi	2SC3513	None

No-Xref

Alpha/Skyworks/betelical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
NEC	2SC3545	None
Toshiba	2SC3547A	None
Toshiba	2SC3547B	None
NEC	2SC3582	None
NEC	2SC3583	None
NEC	2SC3585	None
Toshiba	2SC3605	None
Toshiba	2SC3606	None
Toshiba	2SC3607	None
NEC	2SC3663	None
Hitachi	2SC3793	None
NEC	2SC3841	None
Hitachi	2SC3867	None
Hitachi	2SC4126	None
NEC	2SC4183	None
NEC	2SC4187	None
Hitachi	2SC4196	None
Hitachi	2SC4197	None
NEC	2SC4225	None
Hitachi	2SC4260	None
Hitachi	2SC4261	None
Hitachi	2SC4262	None
Hitachi	2SC4264	None
Hitachi	2SC4265	None
Hitachi	2SC4308	None
Toshiba	2SC4317	None
Toshiba	2SC4322	None
Toshiba	2SC4324	None
Toshiba	2SC4393	None
Hitachi	2SC4416	None
Hitachi	2SC4422	None
Hitachi	2SC4462	None
Hitachi	2SC454	None
NEC	2SC4568	None
NEC	2SC4569	None
NEC	2SC4570	None
NEC	2SC4571	None
Hitachi	2SC4591	None
Hitachi	2SC460	None
Hitachi	2SC461	None
Hitachi	2SC4628	None
Hitachi	2SC4629	None
Hitachi	2SC4643	None
Hitachi	2SC4680	None
Hitachi	2SC4693	None
Hitachi	2SC4791	None
Toshiba	2SC4839	None
Toshiba	2SC4840	None
Toshiba	2SC4841	None
Toshiba	2SC4843	None

No-Xref Alpha/Skyworks betical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
Toshiba	2SC4844	None
Hitachi	2SC4875	None
Hitachi	2SC4926	None
NEC	2SC4954	None
NEC	2SC4955	None
NEC	2SC4956	None
NEC	2SC4957	None
NEC	2SC4958	None
NEC	2SC4959	None
Hitachi	2SC4964	None
Hitachi	2SC4965	None
Hitachi	2SC4993	None
Hitachi	2SC4994	None
Hitachi	2SC4995	None
NEC	2SC5004	None
NEC	2SC5005	None
NEC	2SC5006	None
NEC	2SC5007	None
NEC	2SC5008	None
NEC	2SC5009	None
NEC	2SC5010	None
NEC	2SC5013	None
NEC	2SC5014	None
NEC	2SC5015	None
Hitachi	2SC5049	None
Hitachi	2SC5050	None
Toshiba	2SC5064	None
Toshiba	2SC5066	None
Toshiba	2SC5066F	None
Hitachi	2SC5078	None
Hitachi	2SC5079	None
Hitachi	2SC5080	None
Hitachi	2SC5081	None
Toshiba	2SC5084	None
Toshiba	2SC5086	None
Toshiba	2SC5086F	None
Toshiba	2SC5089	None
Toshiba	2SC5091	None
Toshiba	2SC5091F	None
Toshiba	2SC5093	None
Toshiba	2SC5094	None
Toshiba	2SC5096	None
Toshiba	2SC5096F	None
Toshiba	2SC5097	None
Toshiba	2SC5098	None
Toshiba	2SC5106	None
Toshiba	2SC5108	None
Toshiba	2SC5108F	None
Toshiba	2SC5109	None
Toshiba	2SC5110	None

No-Xref

Alpha/Skyworks/betelical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
Toshiba	2SC5111	None
Toshiba	2SC5111F	None
Hitachi	2SC5136	None
Hitachi	2SC5137	None
Hitachi	2SC5138	None
Hitachi	2SC5139	None
Hitachi	2SC5140	None
Hitachi	2SC5141	None
NEC	2SC5177	None
NEC	2SC5178	None
NEC	2SC5179	None
NEC	2SC5180	None
NEC	2SC5181	None
NEC	2SC5182	None
NEC	2SC5183	None
NEC	2SC5184	None
NEC	2SC5185	None
NEC	2SC5186	None
NEC	2SC5191	None
NEC	2SC5192	None
NEC	2SC5193	None
NEC	2SC5194	None
NEC	2SC5195	None
Hitachi	2SC5218	None
Hitachi	2SC5225	None
Hitachi	2SC5246	None
Hitachi	2SC5247	None
Toshiba	2SC5254	None
Toshiba	2SC5255	None
Toshiba	2SC5256	None
Toshiba	2SC5256F	None
Toshiba	2SC5257	None
Toshiba	2SC5258	None
Toshiba	2SC5259	None
Toshiba	2SC5260	None
Toshiba	2SC5261	None
Toshiba	2SC5261F	None
Toshiba	2SC5262	None
Toshiba	2SC5263	None
NEC	2SC5288	None
NEC	2SC5289	None
Toshiba	2SC5313	None
Toshiba	2SC5315	None
Toshiba	2SC5317	None
Toshiba	2SC5317F	None
Toshiba	2SC5318	None
Toshiba	2SC5319	None
Toshiba	2SC5320	None
Toshiba	2SC5321	None
Toshiba	2SC5322	None

No-Xref

Alpha/Skyworks/betelical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
Toshiba	2SC5322F	None
Toshiba	2SC5323	None
Toshiba	2SC5324	None
NEC	2SC5336	None
NEC	2SC5337	None
NEC	2SC5338	None
Hitachi	2SC535	None
NEC	2SC5369	None
NEC	2SC5408	None
NEC	2SC5409	None
NEC	2SC5431	None
NEC	2SC5432	None
NEC	2SC5433	None
NEC	2SC5434	None
NEC	2SC5435	None
NEC	2SC5436	None
NEC	2SC5437	None
NEC	2SC5454	None
NEC	2SC5455	None
Toshiba	2SC5464	None
NEC	2SC5507	None
NEC	2SC5508	None
NEC	2SC5509	None
NEC	2SC5533	None
Hitachi	2SC5543	None
Hitachi	2SC5544	None
Hitachi	2SC5545	None
Hitachi	2SC5554	None
Hitachi	2SC5555	None
NEC	2SC5599	None
NEC	2SC5600	None
NEC	2SC5601	None
NEC	2SC5602	None
NEC	2SC5603	None
NEC	2SC5604	None
NEC	2SC5606	None
NEC	2SC5614	None
NEC	2SC5615	None
NEC	2SC5616	None
NEC	2SC5617	None
NEC	2SC5618	None
Hitachi	2SC5629	None
NEC	2SC5667	None
NEC	2SC5668	None
NEC	2SC5674	None
NEC	2SC5675	None
NEC	2SC5676	None
NEC	2SC5677	None
Hitachi	2SC5702	None
NEC	2SC5704	None

No-Xref

Alpha/Skyworks/betelical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
NEC	2SC5736	None
NEC	2SC5737	None
NEC	2SC5742	None
NEC	2SC5744	None
NEC	2SC5745	None
NEC	2SC5746	None
Hitachi	2SC5759	None
NEC	2SC5761	None
Hitachi	2SC5772	None
Hitachi	2SC5773	None
Infineon	BB914	None
Infineon	BAR14-1	None
Infineon	BAR15-1	None
Infineon	BAR16-1	None
Infineon	BAR60	None
Infineon	BAR61	None
Infineon	BAR63-04	None
Infineon	BAR63-04W	None
Infineon	BAR64-07	None
Infineon	BAR65-07	None
Infineon	BAR80	None
Infineon	BAR81	None
Infineon	BAR81W	None
Infineon	BAT18-04	None
Infineon	BAT18-05	None
Infineon	BAT18-06	None
Infineon	BF517	None
Infineon	BF569	None
Infineon	BF660	None
Infineon	BF660W	None
Infineon	BFP136W	None
Infineon	BFP180W	None
Infineon	BFP181W	None
Infineon	BFP182W	None
Infineon	BFP183W	None
Infineon	BFP194	None
Infineon	BFP196	None
Infineon	BFP280W	None
Infineon	BFP405F	None
Infineon	BFP420F	None
Infineon	BFP490	None
Infineon	BFP520F	None
Infineon	BFP540	None
Infineon	BFP540F	None
Infineon	BFP620	None
Infineon	BFP620F	None
Infineon	BFR181T	None
Infineon	BFR182T	None
Infineon	BFR183T	None
Infineon	BFR193L3	None

No-Xref

Alpha/Skyworks/betical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
Infineon	BFR193T	None
Infineon	BFR194	None
Infineon	BFR280	None
Infineon	BFR280W	None
Infineon	BFR92T	None
Infineon	BFS17S	None
Infineon	BFS480	None
Infineon	BFS482	None
Hitachi	HSM2692	None
Hitachi	HSM2693A	None
Hitachi	HSM2694	None
Agilent	HSMP3802	None
Agilent	HSMP3804	None
Agilent	HSMP3810	None
Agilent	HSMP3812	None
Agilent	HSMP3813	None
Agilent	HSMP3814	None
Agilent	HSMP381B	None
Agilent	HSMP381C	None
Agilent	HSMP381E	None
Agilent	HSMP381F	None
Agilent	HSMP3823	None
Agilent	HSMP3824	None
Agilent	HSMP3863	None
Agilent	HSMP386C	None
Agilent	HSMP386F	None
Agilent	HSMP3892	None
Agilent	HSMP3893	None
Agilent	HSMP3894	None
Agilent	HSMP3895	None
Agilent	HSMP389C	None
Agilent	HSMP389E	None
Hitachi	HVM131S	None
Hitachi	HVM131SR	None
Hitachi	HVM14SR	None
Hitachi	HVM187S	None
Hitachi	HVM187WK	None
Hitachi	HVU187	None
Toshiba	JDP4P02U	None
On-Semi	LP1001	None
On-Semi	LP1001A	None
MA-com	MA4P274-1068	None
MA-com	MA4P274CA-1146	None
MA-com	MA4P274CA-287	None
MA-com	MA4P274ST-1146	None
MA-com	MA4P274ST-287	None
MA-com	MA4P275-1068	None
MA-com	MA4P275CA-1146	None
MA-com	MA4P275CA-287	None
MA-com	MA4P275ST-1146	None

No-Xref

Alpha/Skyworks/betel by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
MA-com	MA4P275ST-287	None
MA-com	MA4P277CA-287	None
MA-com	MA4P277CK-287	None
MA-com	MA4P277ST-287	None
MA-com	MA4P278CA-287	None
MA-com	MA4P278CK-287	None
MA-com	MA4P278ST-287	None
MA-com	MA4P282-1141	None
MA-com	MA4P282-287	None
MA-com	MA4P282CA-287	None
MA-com	MA4P282CK-287	None
MA-com	MA4P282ST-287	None
MA-com	MA4P789-1068	None
MA-com	MA4P789CA-1146	None
MA-com	MA4P789CA-287	None
MA-com	MA4P789CK-1146	None
MA-com	MA4P789CK-287	None
On-Semi	MMBR4957L	None
On-Semi	MMBR521L	None
On-Semi	MPS3866	None
On-Semi	MPS571	None
On-Semi	MPS901	None
On-Semi	MPS911	None
On-Semi	MRF1027	None
On-Semi	MRF1047	None
On-Semi	MRF1057	None
On-Semi	MRF3866	None
On-Semi	MRF4427	None
On-Semi	MRF5211L	None
On-Semi	MRF5583	None
On-Semi	MRF579	None
On-Semi	MRF5812	None
On-Semi	MRF5843	None
On-Semi	MRF8372	None
On-Semi	MRF949	None
On-Semi	MRF959T	None
Toshiba	MT3S03AT	None
Toshiba	MT3S04AT	None
Toshiba	MT4S03AU	None
Toshiba	MT4S04AU	None
Toshiba	MT4S06U	None
Toshiba	MT4S32U	None
Toshiba	MT6P03AE	None
Toshiba	MTS06T	None
Toshiba	MTS07T	None
Toshiba	MTS31T	None
Alpha/Skyworks	SMP1302-003	None
Alpha/Skyworks	SMP1302-073	None
Alpha/Skyworks	SMP1304-004	None
Alpha/Skyworks	SMP1304-005	None

No-Xref

Alpha/Skyworksbetical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
Alpha/Skyworks	SMP1304-007	None
Alpha/Skyworks	SMP1304-018	None
Alpha/Skyworks	SMP1304-019	None
Alpha/Skyworks	SMP1307-004	None
Alpha/Skyworks	SMP1307-005	None
Alpha/Skyworks	SMP1307-027	None
Alpha/Skyworks	SMP1320-005	None
Alpha/Skyworks	SMP1320-007	None
Alpha/Skyworks	SMP1320-015	None
Alpha/Skyworks	SMP1320-075	None
Alpha/Skyworks	SMP1320-077	None
Alpha/Skyworks	SMP1321-003	None
Alpha/Skyworks	SMP1321-004	None
Alpha/Skyworks	SMP1321-007	None
Alpha/Skyworks	SMP1321-073	None
Alpha/Skyworks	SMP1321-074	None
Alpha/Skyworks	SMP1322-005	None
Alpha/Skyworks	SMP1322-007	None
Alpha/Skyworks	SMP1322-016	None
Alpha/Skyworks	SMP1322-017	None
Alpha/Skyworks	SMP1322-075	None
Alpha/Skyworks	SMP1330-001	None
Alpha/Skyworks	SMP1330-005	None
Alpha/Skyworks	SMP1330-007	None
Alpha/Skyworks	SMP1330-011	None
Alpha/Skyworks	SMP1340-003	None
Alpha/Skyworks	SMP1340-005	None
Alpha/Skyworks	SMV1143-011	None
Alpha/Skyworks	SMV1234-004	None
Alpha/Skyworks	SMV1408-001	None
NEC	uPA800T	None
NEC	uPA800TF	None
NEC	uPA801T	None
NEC	uPA801TC	None
NEC	uPA801TF	None
NEC	uPA802T	None
NEC	uPA803T	None
NEC	uPA804T	None
NEC	uPA804TC	None
NEC	uPA804TF	None
NEC	uPA805T	None
NEC	uPA806T	None
NEC	uPA807T	None
NEC	uPA808T	None
NEC	uPA809T	None
NEC	uPA810T	None
NEC	uPA810TC	None
NEC	uPA810TF	None
NEC	uPA811T	None
NEC	uPA812T	None

No-Xref Alpha/Skyworksbetical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
NEC	uPA813T	None
NEC	uPA814T	None
NEC	uPA814TC	None
NEC	uPA814TF	None
NEC	uPA821TC	None
NEC	uPA821TF	None
NEC	uPA826TC	None
NEC	uPA826TF	None
NEC	uPA827TF	None
NEC	uPA828TF	None
NEC	uPA829TD	None
NEC	uPA829TF	None
NEC	uPA831TC	None
NEC	uPA831TC	None
NEC	uPA831TF	None
NEC	uPA831TF	None
NEC	uPA832TF	None
NEC	uPA832TF	None
NEC	uPA833TF	None
NEC	uPA833TF	None
NEC	uPA834TF	None
NEC	uPA834TF	None
NEC	uPA835TC	None
NEC	uPA835TC	None
NEC	uPA835TF	None
NEC	uPA835TF	None
NEC	uPA836TC	None
NEC	uPA836TC	None
NEC	uPA836TF	None
NEC	uPA836TF	None
NEC	uPA837TF	None
NEC	uPA837TF	None
NEC	uPA838TF	None
NEC	uPA838TF	None
NEC	uPA839TF	None
NEC	uPA839TF	None
NEC	uPA840TC	None
NEC	uPA840TC	None
NEC	uPA841TC	None
NEC	uPA841TC	None
NEC	uPA842TC	None
NEC	uPA842TC	None
NEC	uPA843TC	None
NEC	uPA843TC	None
NEC	uPA843TD	None
NEC	uPA843TD	None
NEC	uPA844TC	None
NEC	uPA844TC	None
NEC	uPA845TC	None
NEC	uPA845TC	None

No-Xref Alpha/Skyworksbetical by Manufacturer Ty

Manufacturer	Manufacturer Type	Closest Philips Type
NEC	uPA858TC	None
NEC	uPA858TC	None
NEC	uPA871TC	None
NEC	uPA891TC	None
NEC	uPA892TC	None
NEC	uPA892TD	None
NEC	uPA893TD	None