2SK536

N-Channel MOSFET 50V, 100mA, Single CP



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Features

- Large | yfs |
- Enhancement type
- · Low ON-state resistance

Specifications

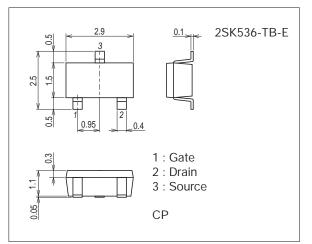
Absolute Maximum Ratings at Ta= $25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Drain to Source Voltage	VDS		50	V
Gate to Source Voltage	V _{GS}		±12	V
Drain Current	ID		100	mA
Drain Current(Pulse)	IDP		300	mA
Allowable Power Dissipation	PD		200	mW
Channel Temperature	Tch		125	°C
Storage Temperature	Tstg		-55 to +125	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7013A-010

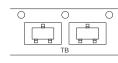


Ordering & Package Information

-	_		
Device	Package	Shipping	memo
2SK536-TB-E	CP SC-59, TO-236, SOT-23, TO-236AB	3,000pcs./reel	Pb-Free

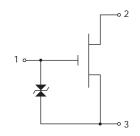
Packing Type: TB

Marking

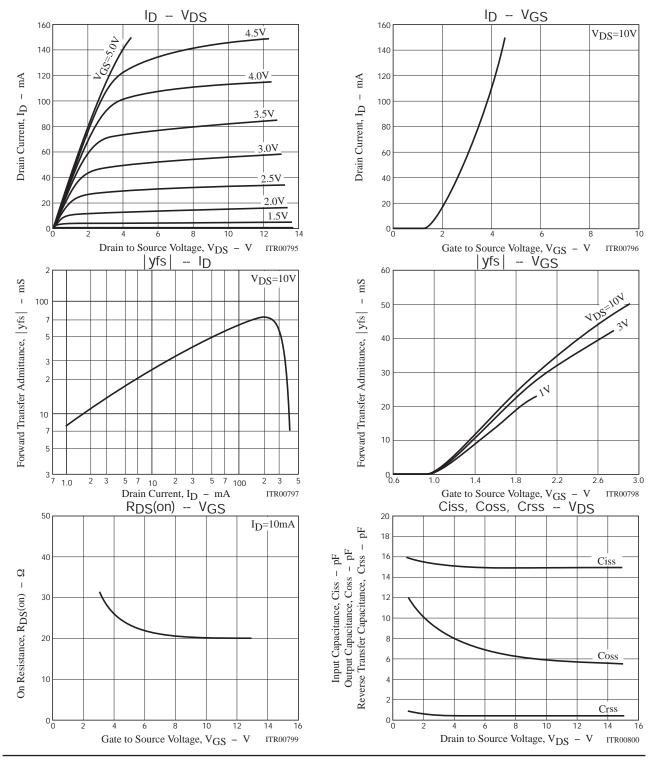




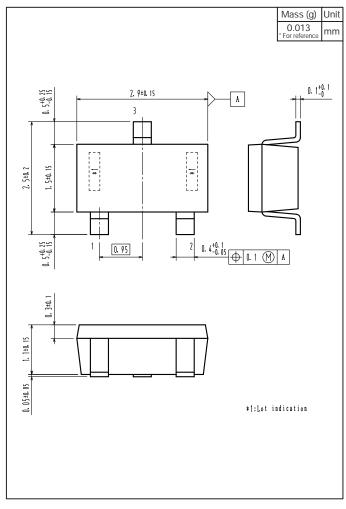
Electrical Connection



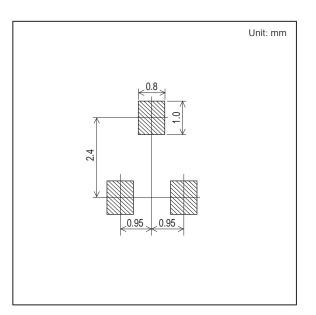
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DS	ID=10μA, VGS=0V	50			V
Gate to Source Leakage Current	IGSS	V _{GS} =10V, V _{DS} =0V		0.01	10	nA
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =20V, V _{GS} =0V			1	μΑ
Cutoff Voltage	I _{GS} (off)	V _{DS} =10V, I _D =100µA	0.3	0.9	1.5	V
Forward Transfer Admittance	yfs	VDS=10V, ID=50mA, f=1kHz	25	40		mS
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0V, f=1MHz		15		рF
Output Capacitance	Coss			6		рF
Reverse Transfer Capacitance	Crss			0.5		pF
Drain to Source ON Resistance	RDS(on)	VGS=10V, ID=10mA		20		Ω



Outline Drawing 2SK536-TB-E



Land Pattern Example



Note on usage : Since the 2SK536 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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