RD0506LS-SB

ON Semiconductor®

Planar Ultrafast Rectifier 5A, 600V, TO-220F-2FS

http://onsemi.com

Features

- High breakdown voltage (VRRM=600V)
- · Easy to be mounted, good heat dissipation
- \cdot Low noise at the time of reverse recovery
- · High reliability
- · Reverse recovery time is fast
- · Halogen free compliance

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		600	V
Average Output Current	lo		5	А
Peak Output Current	IOP	PW≤100μs, duty cycle≤50%	20	А
Surge Forward Current	I _{FSM}	Sine wave, 10ms 1pulse	120	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

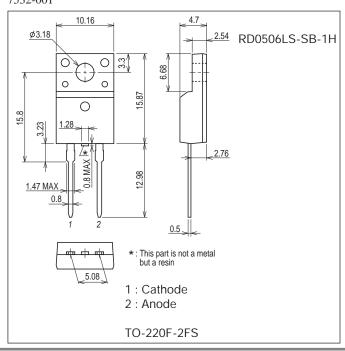
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Electrical Characteristics at Ta=25°C

Parameter	Cymphol	Conditions	Ratings			Unit	
Parameter Symbol		Conditions	min	typ	max	Unit	
Reverse Voltage	٧R	I _R =1mA	600			V	
Forward Voltage	VF	IF=5A		1.3	1.6	V	
Reverse Current	IR	V _R =600V			50	μΑ	
Reverse Recovery Time	t _{rr}	I _F =5A, di / dt=100A/μs			50	ns	
Thermal Resistance	Rth(j-c)	Between the junction part and the case smoothing current			6.25	°C / W	

Package Dimensions

unit : mm (typ) 7532-001



Ordering & Package Information

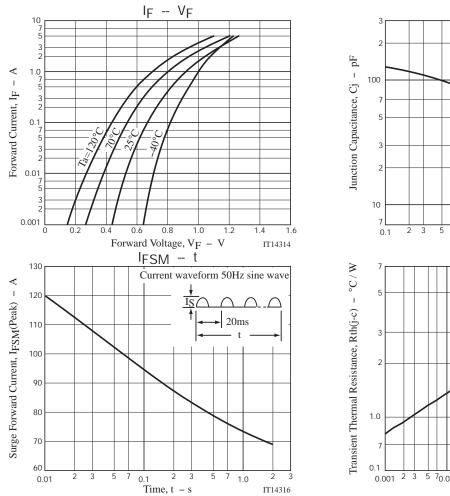
•	•		
Device	Package	Shipping	memo
RD0506LS-SB-1H	TO-220F-2FS, SC-67 TO-220Full pack, 2-Lead	50pcs./ tube	Pb-Free and Halogen Free

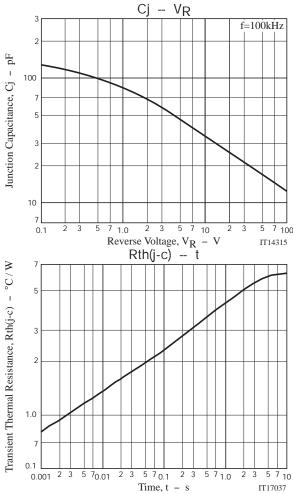
Marking



Electrical Connection





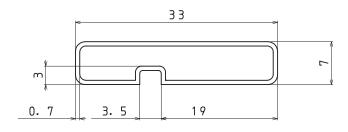


Magazine Specification

RD0506LS-SB-1H

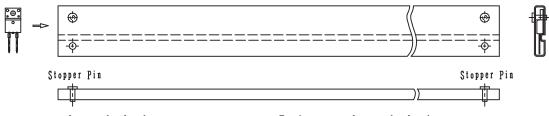
1. Packing Format

Package Name	Magazine Name	Maximum Number of devices contained (pcs			Packing format		
1404480 1/4440	Magazino Idamo		Inner box	Outer box	Inner BOX	Outer BOX	
TO-220F-2FS	TO-220F	50	1, 000	4,000	012 0.0001	SPT-081029 4 inner boxes contained Dimensions:mm (external) 590×225×178	

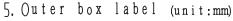


Tolerance=±0.3mm
Thickness=0.7±0.2mm
Length =532.5±2mm
Material =PVC (Antistatic treatment)

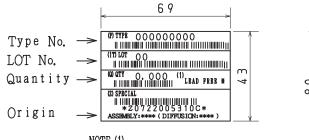
3. Storage method to magazine

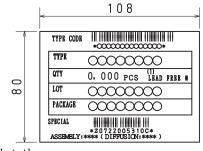


4. Inner box label (unit:mm)



It is a label at the time of factory shipments. The form of a label may change in physical distribution process.



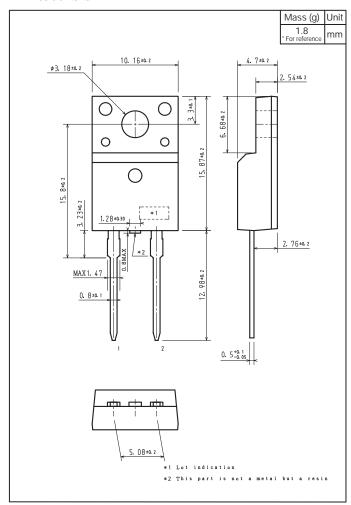


The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

Label		JEITA Phase			
LEAD FREE	3	JEITA Phase 3A			

Outline Drawing

RD0506LS-SB-1H



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