RD0506LS-SB

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

Features

- High breakdown voltage (VRRM=600V)
- · Easy to be mounted, good heat dissipation
- · 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	VRRM		600	V
Average Output Current	Io		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

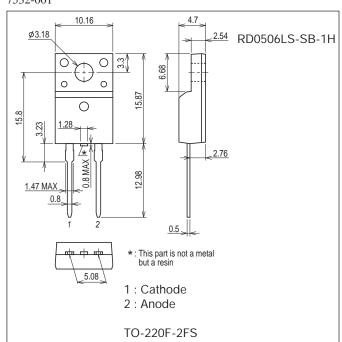
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Ratings		Unit
	Symbol	Conditions	max	Ullit		
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		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

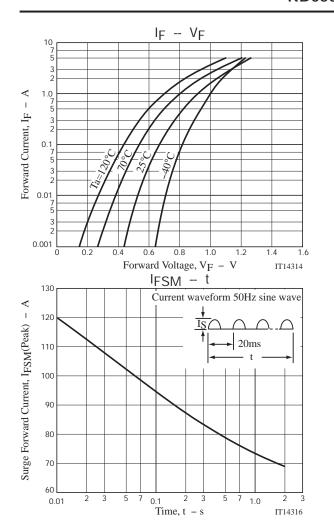
Marking

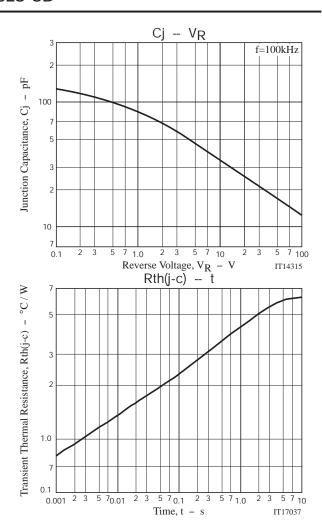


Electrical Connection



Semiconductor Components Industries, LLC, 2013



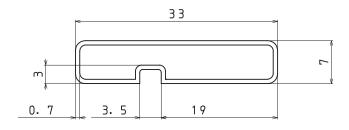


Magazine Specification

RD0506LS-SB-1H

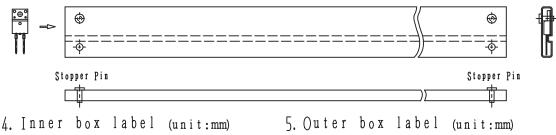
1. Packing Format

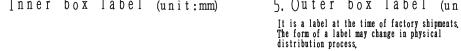
Package Name	Magazine Name	Maximum Number of devices contained (pcs)			Packing format		
I would be Mamo	Magazino Idamo		Inner box	Outer box	Inner BOX	Outer BOX	
TO-220F-2FS	TO-220F	50	1, 000	4,000	SPD-0V0001 20 magazines contained Dimensions:mm (external) 568×150×55	SPT-081029 4 inner boxes contained Dimensions:mm (external) 590×225×178	

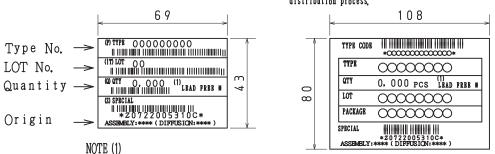


Tolerance=±0.3mm
Thickness=0.7±0.2mm
Length =532.5±2mm
Material =PVC (Antistatic treatment)

3. Storage method to magazine





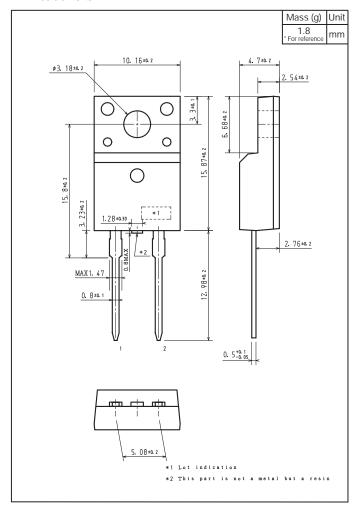


The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

Label	JEITA Phase			
LEAD FREE	3	JEITA	Phase	3A

Outline Drawing

RD0506LS-SB-1H



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