RD2006FR



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Planar Ultrafast Rectifier Fast trr type, 20A, 600V, 50ns, TO-220F-2FS

Features

- · V_F=1.75V max (I_F=20A)
- V_{RRM}=600V
- $t_{rr}=21ns$ (typ.)
- · Halogen free compliance

Specifications

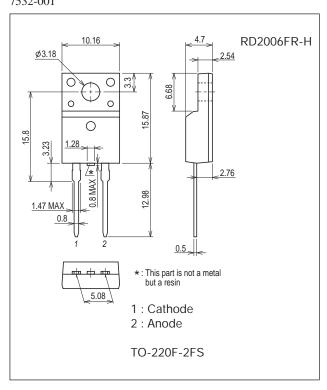
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	DC bias	600	V
Average Output Current	Io		20	Α
Surge Forward Current	I _{FSM}	Sine wave, 10ms single pulse	220	Α
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.

Package Dimensions

unit : mm (typ) 7532-001



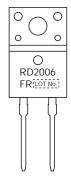
Product & Package Information

• Package : TO-220F-2FS

• JEITA, JEDEC : SC-67

• Minimum Packing Quantity : 50pcs./magazine

Marking



Electrical Connection



Semiconductor Components Industries, LLC, 2013

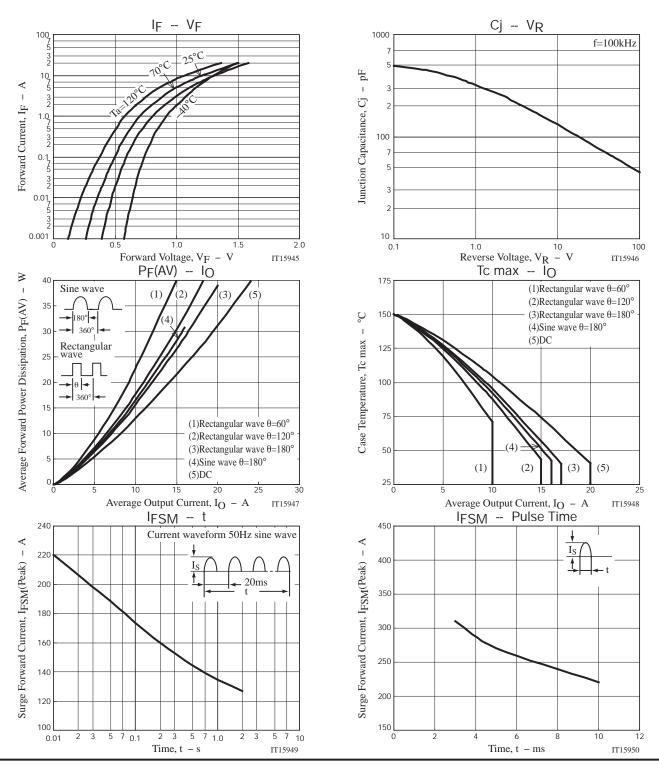
September, 2013 91912 TKIM/91510SA TKIM TC-00002488 No. A1832-1/6

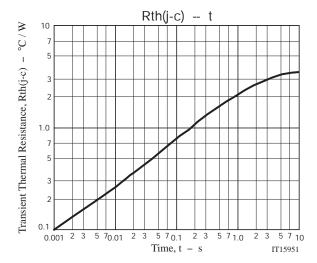
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Unit			
Parameter	Syllibol	Conditions	min	typ	max	Uill	
Reverse Voltage	VR	I _R =1mA	600			V	
Forward Voltage	VF	I _F =20A		1.6	1.75	V	
Reverse Current	IR	V _R =600V			100	μΑ	
Reverse Recovery Time	t _{rr} 1	I _F =10A, di / dt=100A/μs			50	ns	
Reverse Recovery Time	t _{rr} 2	IF=0.5A, IR=1A		21		ns	
Thermal Resistance	Rth(j-c)	Between the junction part and the case smoothing current			3.5	°C/W	

Ordering Information

Device	Package	Shipping	memo
RD2006FR-H	TO-220F-2FS	50pcs./magazine	Pb Free and Halogen Free



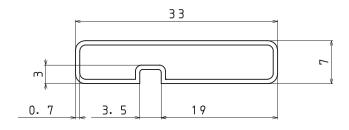


Magazine Specification

RD2006FR-H

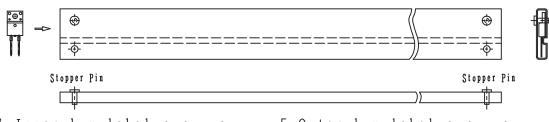
1. Packing Format

Package Name	Magazine Name	Maximum Number of devices contained (pcs)			Packing format		
1402380 11020	Masan Hamo		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)

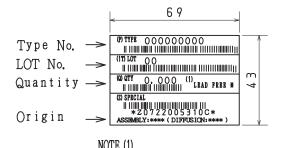
3. Storage method to magazine

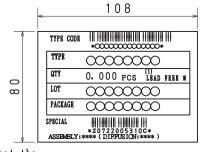


4. Inner box label (unit:mm)

5. Outer 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.



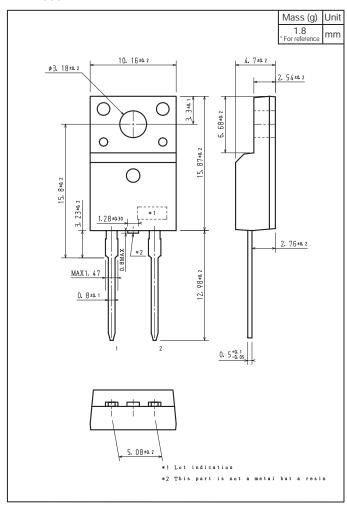


The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

Label		JEITA Phase	
LEAD FREE	3	JEITA Phase 3A	ı

Outline Drawing

RD2006FR-H



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