RD2006FR

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	lo		20	А
Surge Forward Current	IFSM	Sine wave, 10ms single pulse	220	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.

Package Dimensions

unit : mm (typ) 7532-001



Product & Package Information

• Package

: TO-220F-2FS : SC-67

• Minimum Packing Quantity : 50pcs./magazine

Marking

• JEITA, JEDEC

Electrical Connection





Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol	Conditions	min	typ	max	Unit
Reverse Voltage	VR	IR=1mA	600			V
Forward Voltage	VF	IF=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
	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		
		Magazine	Inner box	Outer box	Inner BOX	Outer BOX	
TO-220F-2FS	TO-220F	50	1,000	4,000	20 magazines contained	SPT-081029 4 inner boxes contained Dimensions:mm (external) 590×225×178	

2. Magazine dimensions

(unit:mm)



3. Storage method to magazine



Outline Drawing RD2006FR-H



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