RD2006FR

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



- VF=1.75V max (IF=20A)
- \cdot VRRM=600V
- $t_{rr}=21ns$ (typ.)
- Halogen free compliance

Specifications

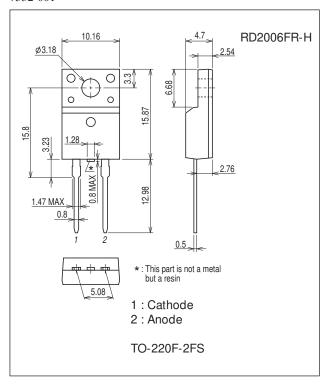
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM	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

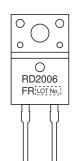
Package

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

• JEITA, JEDEC : SC-67 • Minimum Packing Quantity : 50pcs./magazine

Marking

Electrical Connection







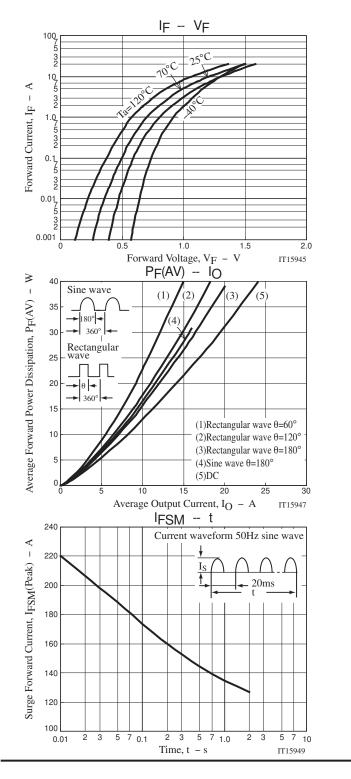
http://onsemi.com

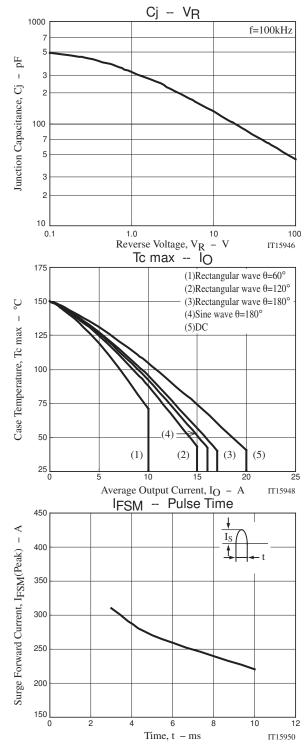
Electrical Characteristics at Ta=25°C

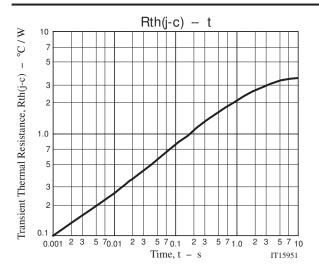
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol	Conditions	min	typ	max	Unit
Reverse Voltage	VR	IR=1mA	600			V
Forward Voltage	VF	IF=20A		1.6	1.75	V
Reverse Current	IR	V _R =600V			100	μA
Reverse Recovery Time	t _{rr} 1	IF=10A, di / dt=100A/µs			50	ns
	t _{rr} 2	IF=0.5A, IR=1A		21		ns
Thermal Resistance	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

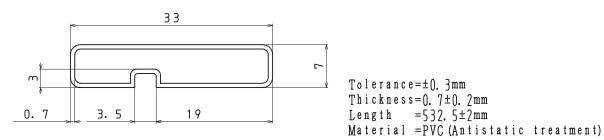
RD2006FR-H

1. Packing Format

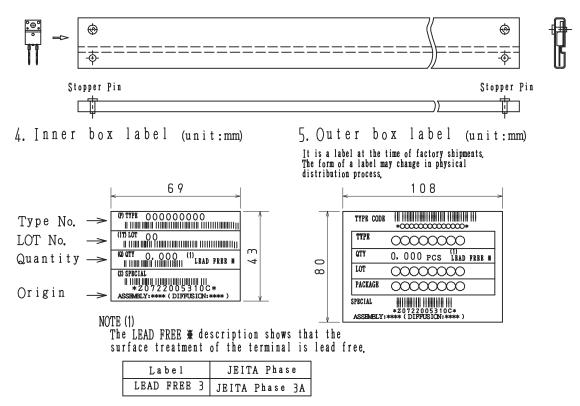
Package Name	Magazine Name	Maximum Number of devices contained (pcs)			Packing format		
I TOTADO HEMO			Inner box	Outer box	Inner BOX	Outer BOX	
TO-220F-2FS	TO-220F	50	1,000	4,000	20 magazines contained	SPT-081029 4 inner boxes contained Dimensions:mm (external) 590×225×178	

2. Magazine dimensions

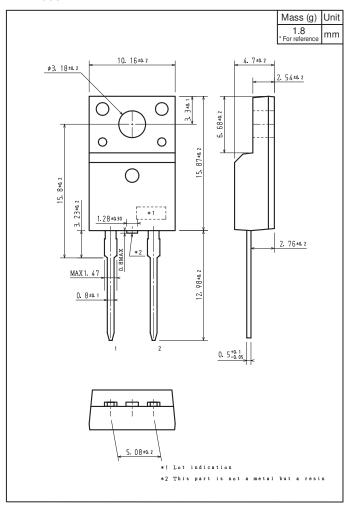
(unit:mm)



3. Storage method to magazine



Outline Drawing RD2006FR-H



RD2006FR

ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typical" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.