

SANYO Semiconductors DATA SHEET

RD2006FR—Diffused Junction Silicon Diode

Ultrahigh-Speed Switching Diode

Features

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

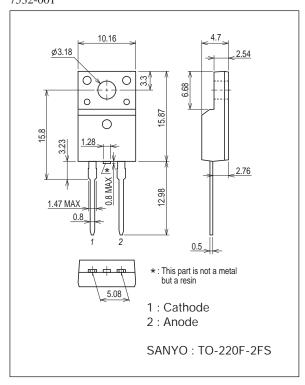
Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	DC bias	600	V
Average Output Current	I ₀		20	А
Surge Forward Current	I _{FSM}	Sine wave, 10ms single pulse	220	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Package Dimensions

unit : mm (typ) 7532-001



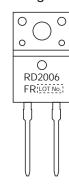
Product & Package Information

• Package : TO-220F-2FS

• JEITA, JEDEC : SC-67

• Minimum Packing Quantity : 50 pcs./magazine

Marking



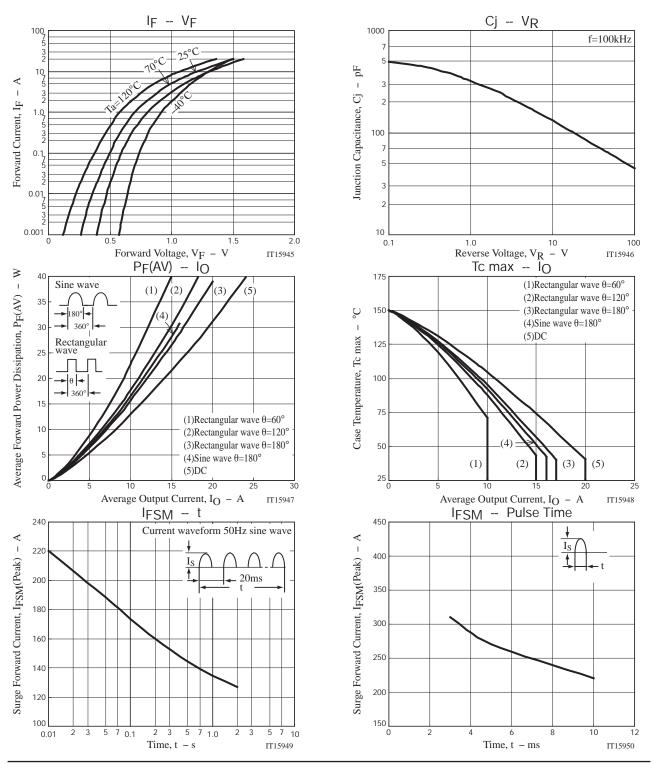
Electrical Connection

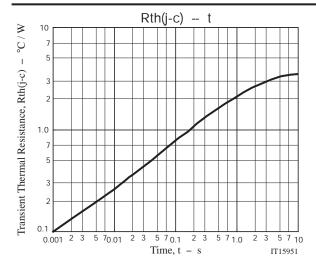


RD2006FR

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O I III
Reverse Voltage	VR	I _R =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





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