

SANYO Semiconductors DATA SHEET

RD2004JS-SB

Diffused Junction Silicon Diode Ultrahigh-Speed Switching Diode

Features

- V_F=1.5V max. (I_F=20A)
- VRRM=400V
- t_{rr}=20ns (typ.)

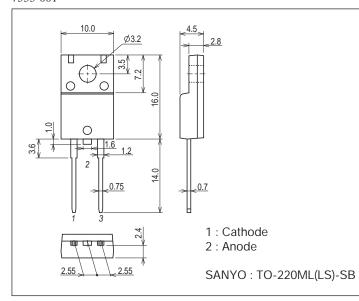
Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	DC bias	400	V
Non-repeated Peak Reverse Surge Voltage	VRSM	PW≤100μs, duty ≤ 0.1	430	V
Average Output Current	lo	50Hz resistive load, Sine wave Tc=41°C	20	Α
R.M.S Forward Current	I _F (RMS)	Tc=25°C (SANYO's ideal heat dissipation condition) Package limited, DC	23	Α
Surge Forward Current	IFSM	50Hz sine wave 1pulse	180	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Package Dimensions

unit : mm (typ) 7533-001



Product & Package Information

• Package : TO-220ML(LS)

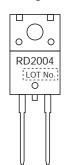
• JEITA, JEDEC : SC-67, SOT-186A

• Minimum Packing Quantity

: 100 pcs./bag, 50 pcs./magazine

Marking

Electrical Connection

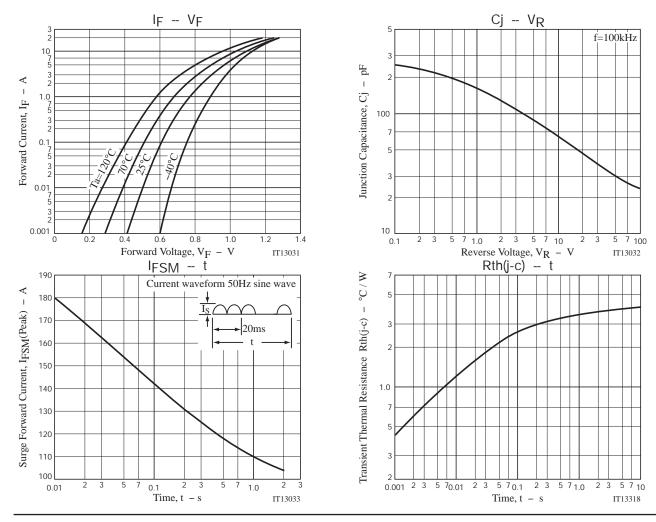




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Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	IR=1mA	400			V
Forward Voltage	VF	IF=20A		1.3	1.5	V
Reverse Current	IR	V _R =400V			100	μΑ
Reverse Recovery Time	t _{rr} 1	IF=10A, di / dt=100A/µs		44	50	ns
	t _{rr} 2	IF=0.5A, IR=1A		20		ns
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W



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