Schottky Barrier Rectifier VRRM 100 Volts, 20A

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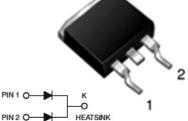


Features

- Metal of silicon rectifier
- Majority used for carrier conduction
- Trench Schottky Technology
- Low power loss, high efficiency
- High current capability, low VF
- · High surge capacity
- Lead free
- Meet UL flammability classification 94V-0
- Case style: TO-263AB
- Weight: 0.08 ounces, 2.24 grams



RoHS



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	Values	Unit	
Max. Recurrent Peak Reverse Voltage	Vrrm	100		
Max. RMS Voltage	VRMS	70	V	
Max. DC Blocking Voltage	VDC	100		
Max. Average Forward Rectified Current (See Fig. 1) Max. Average Forward Rectified Current (Per Leg)	l(AV)	20 10		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	200	A	
Peak repetitive reverse current at tp = 2 µs, 1kHz	Irrm	1		
Operating Temperature Range	TJ	-55 to +150		
Storage Temperature Range	Тѕтс	-55 to +175		

Electrical Characteristics

Parameter / Conditions	Symbol	Тур.	Max.	Unit
Breakdown voltage per diode	Vbr	110 (minimum)	-	
Instantaneous forward voltage per diode (Note1) IF=5A @ TJ=25°C IF=5A @ TJ=125°C IF=10A @ TJ=25°C IF=10A @ TJ=125°C	VF	0.51 0.46 0.62 0.57	0.55 0.49 0.67 0.61	V
Maximum DC Reverse Current @ TJ = 25°C at Rated DC Blocking Voltage @TJ = 125°C	lr	120 40		μA mA
Typical Junction Capacitance (Note 2)	Сл	621		pF
Thermal Characteristics				
Thermal Resistance Per Diode (Note 3)	Rejc	3.5		°C/W

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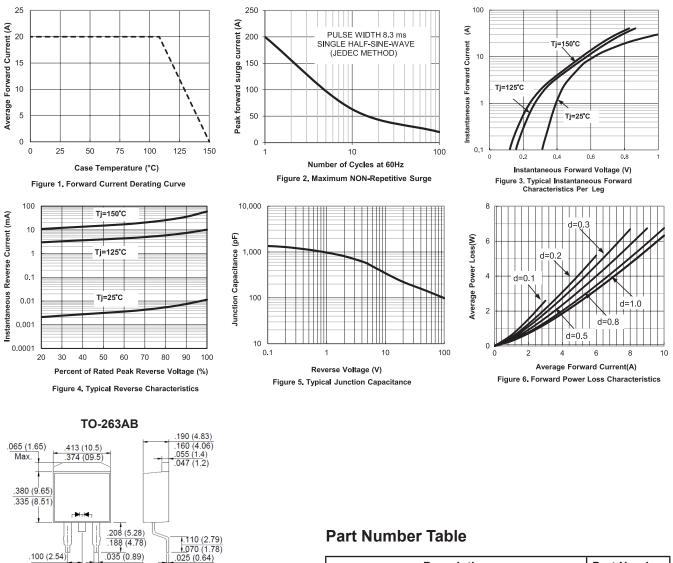
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Notes:

- 1. 300µs pulse width, 2% duty cycle.
- 2. Measured at 1MHz and applied reverse voltage of 4V DC.
- 3. Thermal resistance junction to case.

Rating and Characteristic Curves



$\frac{100 (2.54)}{\text{Bsc.}} \rightarrow \frac{1}{3020 (0.51)} \rightarrow \frac{1}{3020 (0.51)} - \frac{1}{3020 (0.54)} - \frac{1}{3015 (0.38)} $	Description	Part Number	
ensions : Inches (Millimetres)	Schottky Rectifier, Dual, 100V, 20A, TO-263AB	MP001029	

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