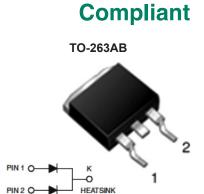
Schottky Barrier Rectifier VRRM 150 Volts, 20A

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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	150	V
Max. RMS Voltage	Vrms	106	
Max. DC Blocking Voltage	Vdc	150	
Max. Average Forward Rectified Current (See Fig. 1) Max. Average Forward Rectified Current (Per Leg)	I(AV)	20 10	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	Іғѕм	80	A
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +175	7

Electrical Characteristics

Parameter / Conditions	Symbol	Тур.	Мах	Unit
Breakdown voltage per diode	Vbr	160 (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	0.93 0.61 1.4 0.71	1.18 0.66 1.9 0.77	V
Maximum DC Reverse Current @ TJ = 25°C at Rated DC Blocking Voltage @TJ = 125°C	Ir	228 80		μA mA
Typical Junction Capacitance (Note 2)	Сл	323		pF
Thermal Characteristics				
Thermal Resistance Per Diode (Note 3)	Rejc	3	.5	°C/W

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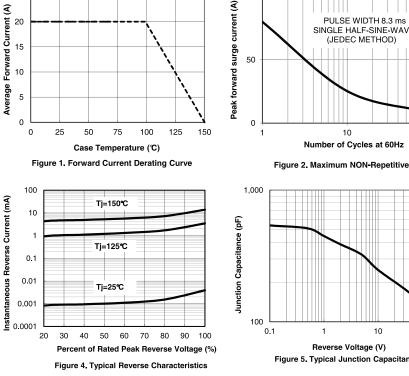
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Notes:

25

- 1. 300µs pulse width, 2% duty cycle.
- 2. Measured at 1MHz and applied reverse voltage of 5V DC.
- 3. Thermal resistance junction to case.

Rating and Characteristic Curves



TO-263AB

.208 (5.28)

.188 (4.78) .035 (0. .020 (0.

413 (10.5) .374 (09.5)

.065 (1.65)

.380 (9.65) .335 (8.51

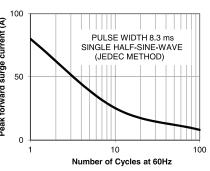
> .100 (2.54 Bsc

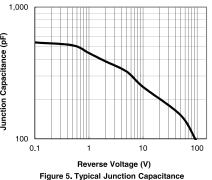
Dimensions : Inches (Mil

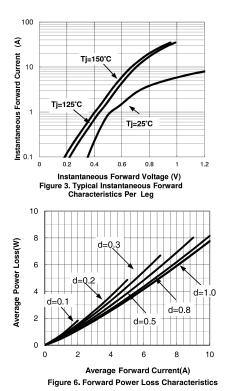
Max

190 (4.83) .160 (4.83) .160 (4.06) .055 (1.4) .047 (1.2)

110 (2.79)







Part Number Table

$\begin{array}{c} 0.89) \\ \hline 0.51) \end{array} - \begin{array}{c} 0.25 & (0.64) \\ \hline 0.015 & (0.38) \end{array}$	Description	Part Number
illimetres)	Schottky Rectifier, Dual, 150V, 20A, TO-263AB	MP001034

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