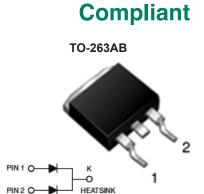
Schottky Barrier Rectifier VRRM 150 Volts, 20A

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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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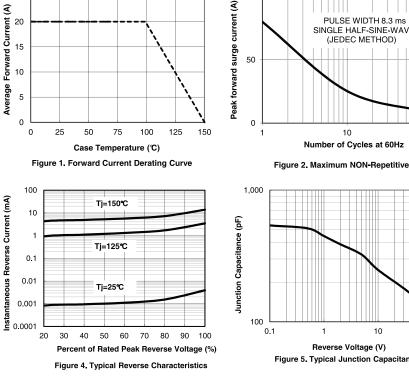
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Notes:

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

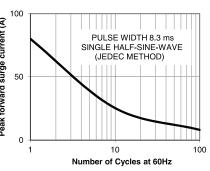
> .100 (2.54 Bsc

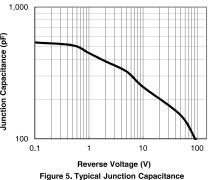
Dimensions : Inches (Mil

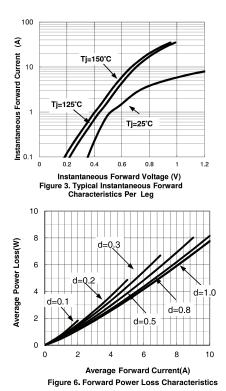
Max

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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