imall

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February 2015



MBRS140 Schottky Rectifier

Features

- Compact Surface Mount with J-bend Leads (SMB)
- 1.5 W Power Dissipation Package
- 1.0 A, Forward Voltage less than 600 mV



Color Band Denote Cathode

Ordering Information

| Part Number | Top Mark | Package | Packing Method |
|-------------|----------|----------------|----------------|
| MBRS140 | B140 | DO-214AA (SMB) | Tape and Reel |

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

| Symbol | Parameter | Value | Unit |
|--------------------|--|-------------|------|
| V _{RRM} | Maximum Repetitive Reverse Voltage 40 | | V |
| I _{F(AV)} | Average Rectified Forward Current at $T_L = 120^{\circ}C$ 1.0 | | A |
| I _{FSM} | Non-Repetitive Peak Forward Surge Current (8.3 ms, Single Half-Sine-Wave) 40 | | A |
| T _{STG} | Storage Temperature Range | -65 to +150 | °C |
| ТJ | Operating Junction Temperature | -65 to +125 | °C |

Thermal Characteristics

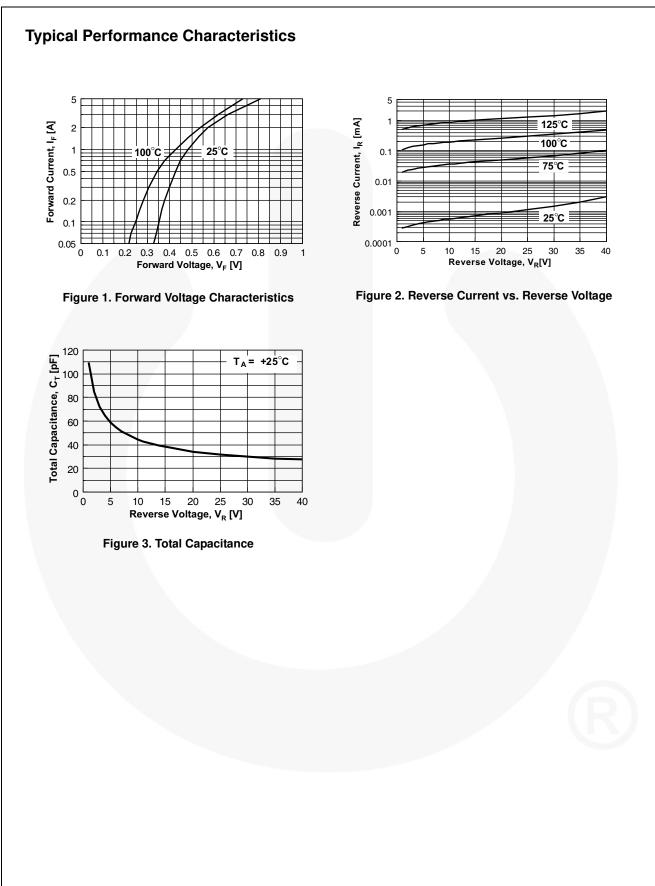
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

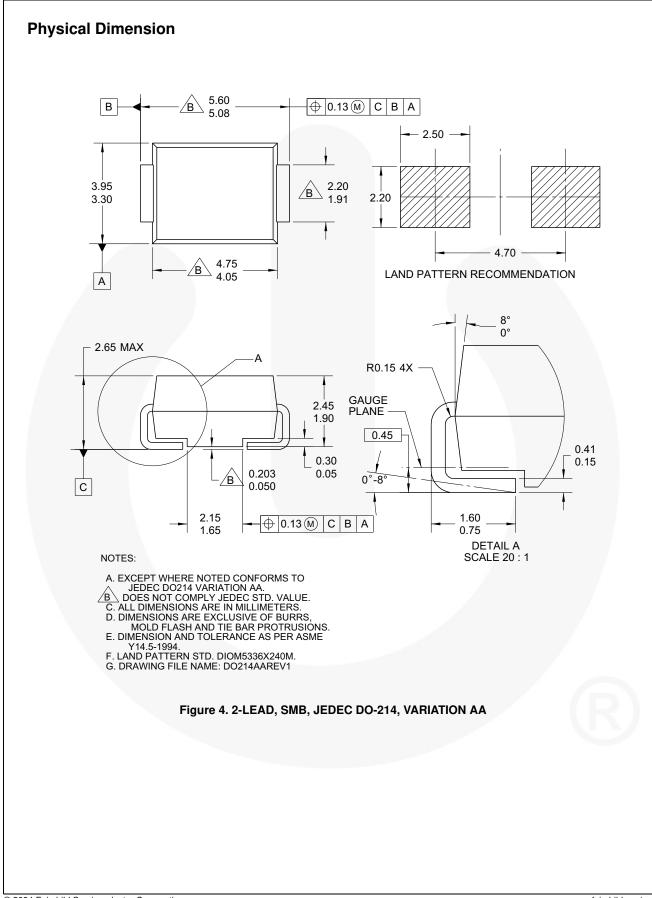
| ſ | Symbol | Parameter | Value | Unit |
|---|-----------------------|--------------------------------------|-------|------|
| | $R_{	extsf{	heta}JL}$ | Thermal Resistance, Junction-to-Lead | 12 | °C/W |

Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

| Symbol | Parameter | Conditions | Min. | Max. | Unit |
|----------------|-----------------|--------------------------------------|------|------|--------|
| V _F | Forward Voltage | I _F = 1.0 A | | 600 | mV |
| I _R | Reverse Current | V _R = 40 V | | 1.0 | mA |
| | | $V_{R} = 40 V, T_{A} = 100^{\circ}C$ | | 10 | iii/ (|





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|--------------------------|-----------------------|--|
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