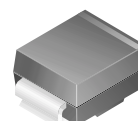


## MBRS140

### Features

- Compact Surface Mount with J-bend Leads (SMB)
- 1.5 Watt Power Dissipation Package
- 1.0 Ampere, Forward Voltage Less than 600mV



**SMB (DO-214AA)**

Color Band Denotes Cathode  
Mark: B140

### Schottky Rectifier

#### Absolute Maximum Ratings \* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	40	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>L</sub> = 120°C	1.0	A
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current (8.3ms, Single half sine wave)	40	A
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	-65 to +125	°C

\* These ratings are limiting values above which the serviceability of the diode may be impaired.

### Thermal Characteristics

Symbol	Parameter	Value	Units
R <sub>θJL</sub>	Thermal Resistance Junction to Lead	12	°C/W

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Min.	Max.	Units
V <sub>F</sub>	Forward Voltage @ I <sub>F</sub> = 1.0A		600	mV
I <sub>R</sub>	Reverse Leakage V <sub>R</sub> = 40V V <sub>R</sub> = 40V, T <sub>A</sub> = 100°C		1.0 10	mA mA

## Typical Characteristics

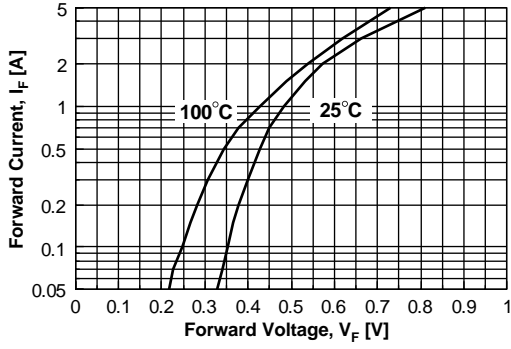


Figure 1. Forward Voltage Characteristics

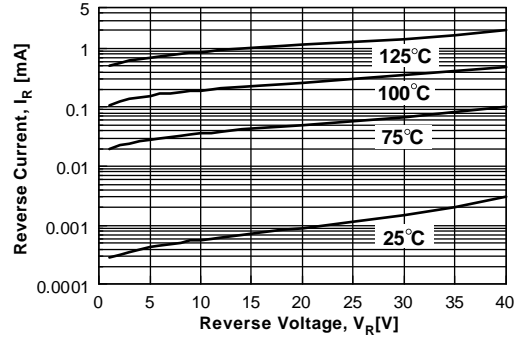


Figure 2. Reverse Current vs Reverse Voltage

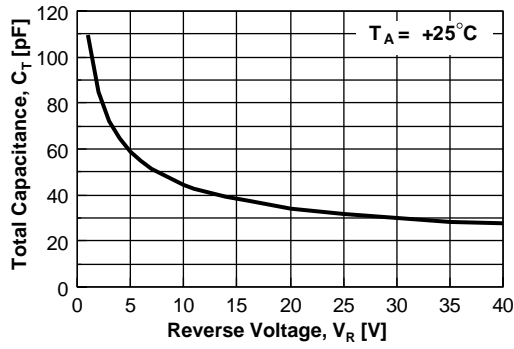


Figure 3. Total Capacitance

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