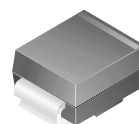


MBRS130

Features

- Compact Surface Mount with J-bend Leads (SMB)
- 1.5 Watt Power Dissipation Package
- 1.0 Ampere, Forward Voltage Less than 550mV



SMB (DO-214AA)

Color Band Denotes Cathode
Mark: B130

Schottky Rectifier

Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	30	V
I _{F(AV)}	Average Rectified Forward Current @ T _L = 120°C	1.0	A
I _{FSM}	Non-repetitive Peak Forward Surge Current (8.3ms, Single half sine wave)	40	A
T _{STG}	Storage Temperature Range	-65 to +150	°C
T _J	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 _{θJL}	Thermal Resistance Junction to Lead	12	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Min.	Max.	Units
V _F	Forward Voltage @ I _F = 1.0A		550	mV
I _R	Reverse Leakage V _R = 30V V _R = 30V, T _A = 100°C		1.0 10	mA mA

Typical Characteristics

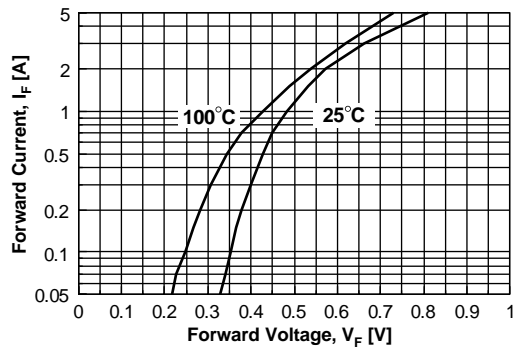


Figure 1. Forward Voltage Characteristics

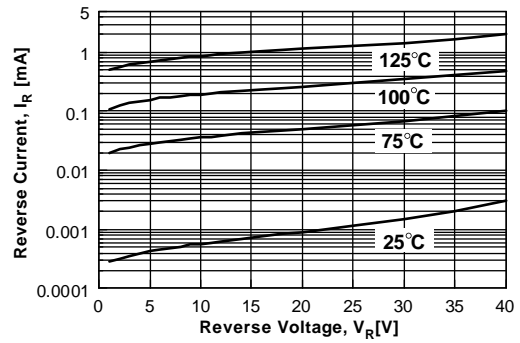


Figure 2. Reverse Current vs Reverse Voltage

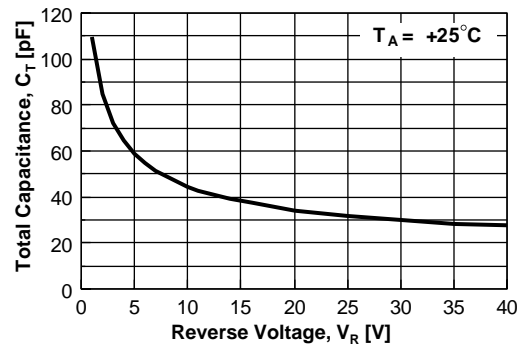


Figure 3. Total Capacitance

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