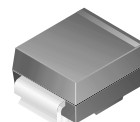


MBRS130

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 * $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	30	V
$I_{F(AV)}$	Average Rectified Forward Current @ $T_L = 120^\circ\text{C}$	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	$^\circ\text{C}$
T_J	Operating Junction Temperature	-65 to +125	$^\circ\text{C}$

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

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JL}$	Thermal Resistance Junction to Lead	12	$^\circ\text{C/W}$

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Min.	Max.	Units
V_F	Forward Voltage @ $I_F = 1.0\text{A}$		550	mV
I_R	Reverse Leakage $V_R = 30\text{V}$		1.0	mA
	$V_R = 30\text{V}, T_A = 100^\circ\text{C}$		10	mA

Typical Characteristics

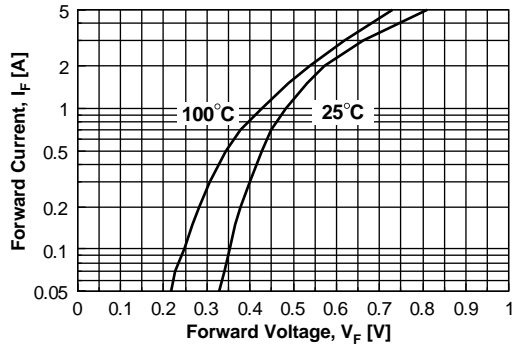


Figure 1. Forward Voltage Characteristics

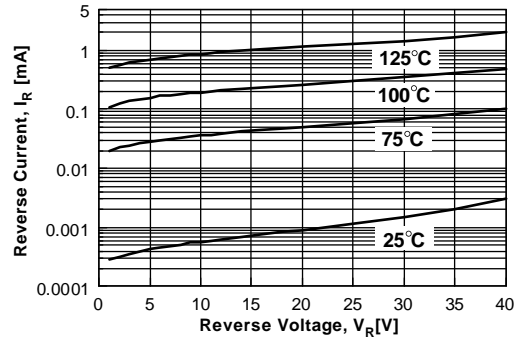


Figure 2. Reverse Current vs Reverse Voltage

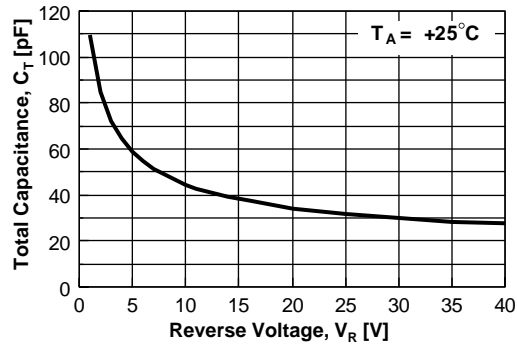


Figure 3. Total Capacitance

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