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MBRS130L

Features

- Compact surface mount package with J-bend leads.
- 1.5 Watt Power Dissipation package.
- 1.0 Ampere, forward voltage less than 395 mv.



SMB/DO-214AA Color Band Denotes Cathode Mark: 1BL3

Schottky Rectifiers

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 @ $T_A = 120$ °C @ $T_A = 110$ °C	1.0 2.0	A A
I _{FSM}	Non-Repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	40	А
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 any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JL}$	Thermal Resistance, Junction to Lead *	12	°C/W

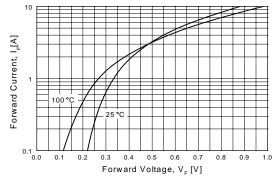
^{*}Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Value	Units
V _F	Forward Voltage	@ I _F = 1.0 A	395	mV
		$I_F = 2.0 \text{ A}$	445	mV
I _R	Reverse Current	@ V _R = 30 V	1.0	mA
		$V_{R} = 30 \text{ V}, T_{A} = 100 ^{\circ}\text{C}$	10	mA

Schottky Rectifier (continued)

Typical Characteristics



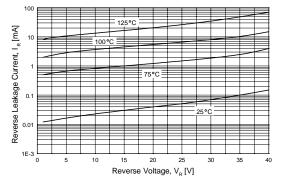
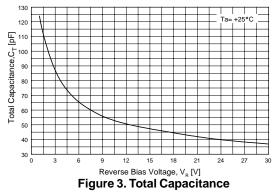


Figure 1. Forward Voltage Characteristics

Figure 2. Reverse Current vs Reverse Voltage



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