

MBRS130L

Features

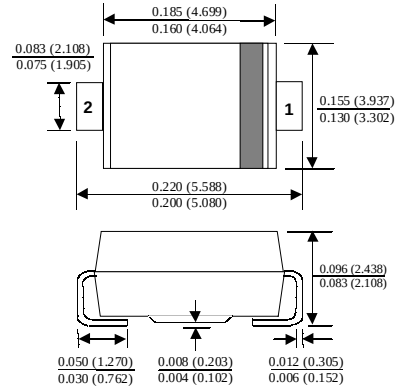
- Compact surface mount package with J-bend leads.
- 1.5 Watt Power Dissipation package.
- 1.0 Ampere, forward voltage less than 395 mV.

Ordering

- 13 inch reel (330 mm); 12 mm Tape; 3,000 units per reel.



SMB/DO-214AA
COLOR BAND DENOTES CATHODE
TOP MARK: 1BL3



1.0 Ampere Schottky Power Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
I _O	Average Rectified Current @ T _A = 120°C @ T _A = 110°C	1.0 2.0	A A
V _{RRM}	Repetitive Peak Reverse Voltage	30	V
I _{F(surge)}	Non-Repetitive Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	40	A
R _{θJL}	Thermal Resistance, Junction to Lead **	12	°C/W
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.

**Device mounted on FR-4 PCB 0.013 mm.

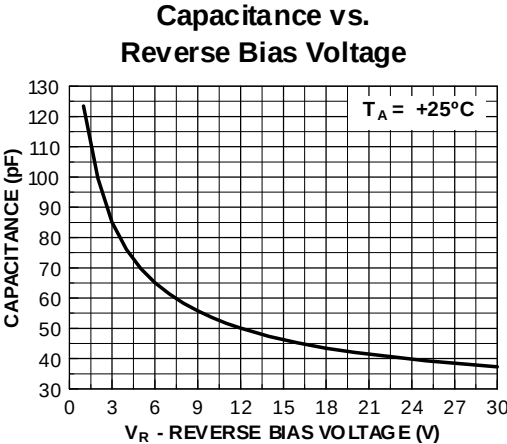
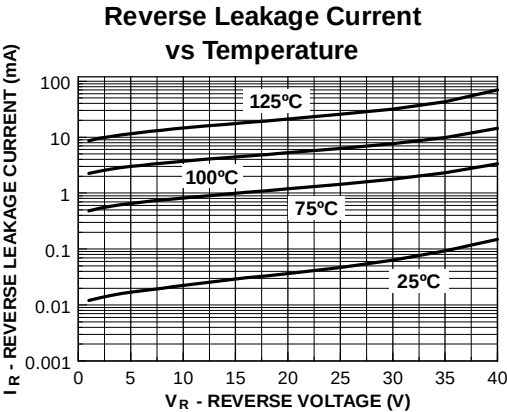
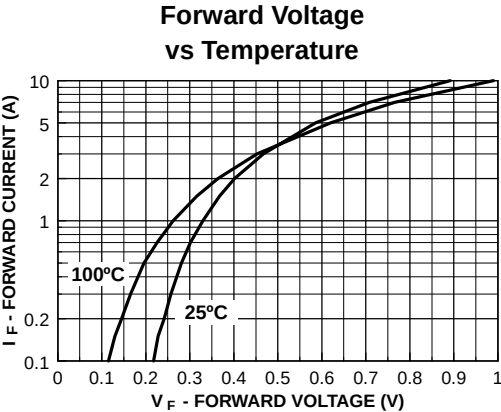
Electrical Characteristics*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
I _R	Reverse Leakage Current	V _R = 30 V, T _A = 25 °C V _R = 30 V, T _A = 100 °C		1.0 10	mA mA
V _F	Forward Voltage	I _F = 1.0 A, T _A = 25 °C I _F = 2.0 A, T _A = 25 °C		395 445	mV mV

*Pulse Test: Pulse Width ≤ 300 μs, Duty Cycle ≤ 2.0%

Typical Characteristics



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FASTr™	SuperSOT™-6
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