Excellent Integrated System Limited

Stocking Distributor

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Fairchild Semiconductor MBRS130L

For any questions, you can email us directly: sales@integrated-circuit.com





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.

Symbol	Parameter		Value	Units
V_{F}	Forward Voltage	@ I _F = 1.0 A I _F = 2.0 A	395 445	mV mV
I _R	Reverse Current	@ V _R = 30 V V _R = 30 V, T _A = 100 °C	1.0 10	mA mA

Schottky Rectifier

(continued)

Typical Characteristics

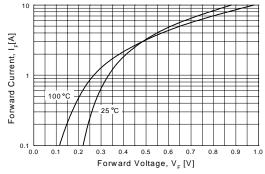


Figure 1. Forward Voltage Characteristics

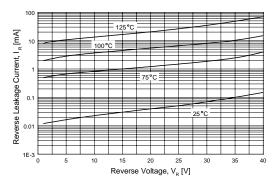
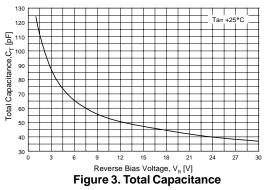


Figure 2. Reverse Current vs Reverse Voltage





Distributor of Fairchild Semiconductor: Excellent Integrated System LimitedDatasheet of MBRS130L - DIODE SCHOTTKY 30V 2A SMB

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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