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# **ON Semiconductor**®

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SEMICONDUCTOR®

# 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<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	30	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>L</sub> = 120°C	1.0	A	
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current (8.3ms, Single hale sine wave)	40	A	
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C	
TJ	Operating Junction Temperature	-65 to +125	°C	

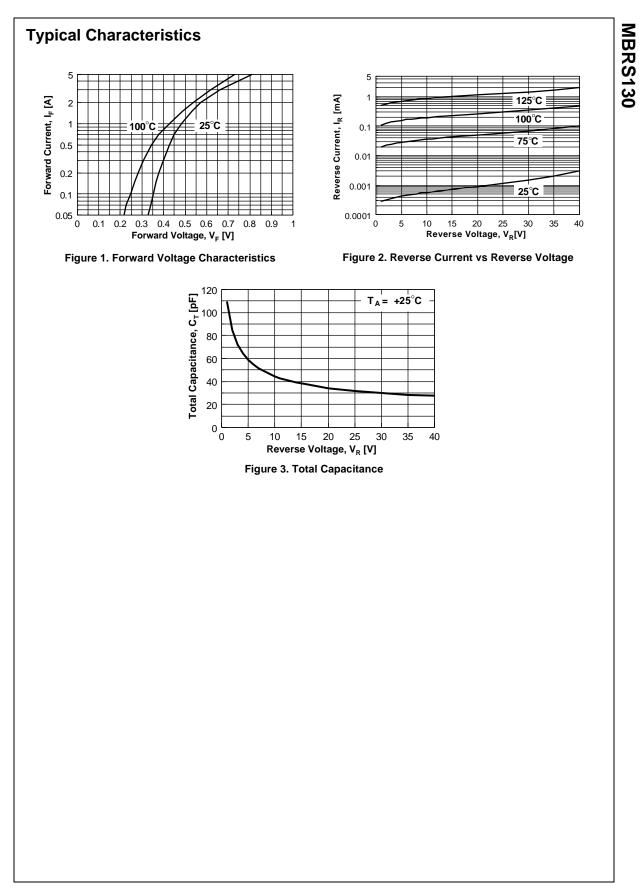
<sup>t</sup> These ratings are limiting values above which the serviceability of the diode may be impaired.

### **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JL}$	Thermal Resistance Junctionto Lead	12	°C/W

## Electrical Characteristics T<sub>A</sub>=25°C unless otherwise noted

Symbol		Parameter	Min.	Max.	Units
V <sub>F</sub>	Forward Voltage	@ I <sub>F</sub> = 1.0A		550	mV
I <sub>R</sub>	Reverse Leakage	$V_R = 30V$		1.0	mA
		$V_{R} = 30V, T_{A} = 100^{\circ}C$		10	mA



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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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