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MBRS130

Features

- Compact Surface Mount with J-bend Leads (SMB)
- 1.5 Watt Power Dissipation Package
- 1.0 Ampere, Forward Voltage Less than 550mV



Schottky Rectifier

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 _L = 120°C	1.0	Α
I _{FSM}	Non-repetitive Peak Forward Surge Current (8.3ms, Single hale 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 the diode may be impaired.

Thermal Characteristics

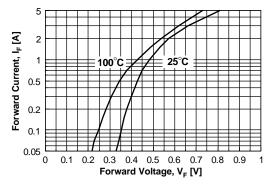
Symbol	Parameter	Value	Units
$R_{\theta JL}$	Thermal Resistance Junctionto Lead	12	°C/W

Electrical Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter			Max.	Units
V _F	Forward Voltage	@ I _F = 1.0A		550	mV
I _R	Reverse Leakage	$V_R = 30V$		1.0	mA
		$V_R = 30V, T_A = 100^{\circ}C$		10	mA

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Typical Characteristics



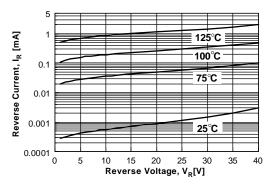


Figure 1. Forward Voltage Characteristics

Figure 2. Reverse Current vs Reverse Voltage

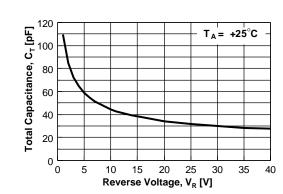


Figure 3. Total Capacitance

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FACT™	ImpliedDisconnect™	OCXPro™	μSerDes™	UltraFET [®]
FACT Quiet Series™	Л	OPTOLOGIC [®]	SILENT SWITCHER®	VCX™
Across the board. Ar	ound the world.™	OPTOPLANAR™	SMART START™	
The Power Franchise	e [®]	PACMAN™	SPM™	
Programmable Activ	e Droop™	POP™	Stealth™	

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