

MBRS140

Features

- Compact Surface Mount with J-bend Leads (SMB)
- 1.5 Watt Power Dissipation Package
- 1.0 Ampere, Forward Voltage Less than 600mV



Schottky Rectifier

Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	40	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
TJ	Operating Junction Temperature	-65 to +125	°C

^{*} These ratings are limiting values above which the serviceability of the diode may be impaired.

Thermal Characteristics

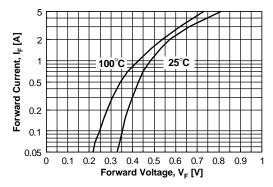
Symbol	Parameter	Value	Units
$R_{\theta JL}$	Thermal Resistance Junctionto Lead	12	°C/W

Electrical Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter			Max.	Units
V _F	Forward Voltage	@ I _F = 1.0A		600	mV
I _R	Reverse Leakage	V _R = 40V		1.0	mA
		$V_R = 40V, T_A = 100^{\circ}C$		10	mA

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Typical Characteristics



0.001 0.001 0.001 0.0001 0

Figure 1. Forward Voltage Characteristics

Figure 2. Reverse Current vs Reverse Voltage

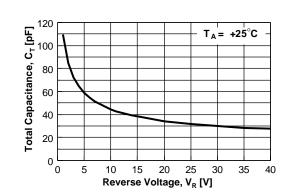


Figure 3. Total Capacitance

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CoolFET™	FRFET™	MicroFET™	QFET [®]	SuperSOT™-8
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FACT Quiet Series™		OPTOLOGIC [®]	SILENT SWITCHER®	VCX™
Across the board. Are	ound the world.™	OPTOPLANAR™	SMART START™	
The Power Franchise®		PACMAN™	SPM™	
Programmable Active	e Droop™	POP™	Stealth™	
	ACEX TM ActiveArray TM Bottomless TM CoolFET TM CROSSVOLT TM DOME TM EcoSPARK TM E ² CMOS TM EnSigna TM FACT Quiet Series TM Across the board. Ard	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$ \begin{array}{llllllllllllllllllllllllllllllllllll$

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