EN: This Datasheet/Document is presented by the manufacturer.

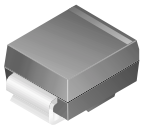
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FAIRCHILD
SEMICONDUCTOR®

MBRS140

Features

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



SMB (DO-214AA)

Color Band Denotes Cathode
Mark: B140

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	A
I_{FSM}	Non-repetitive Peak Forward Surge Current (8.3ms, Single hale sine wave)	40	A
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		Min.	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°C		10	mA

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Typical Characteristics

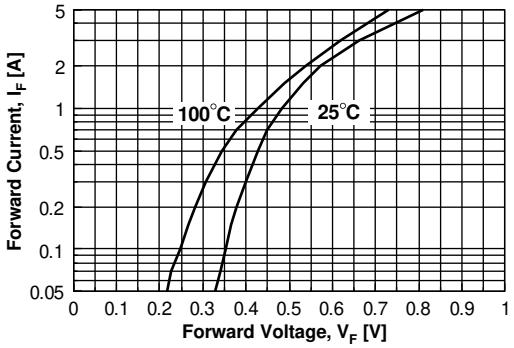


Figure 1. Forward Voltage Characteristics

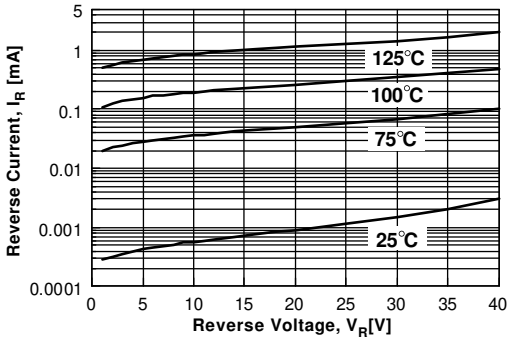


Figure 2. Reverse Current vs Reverse Voltage

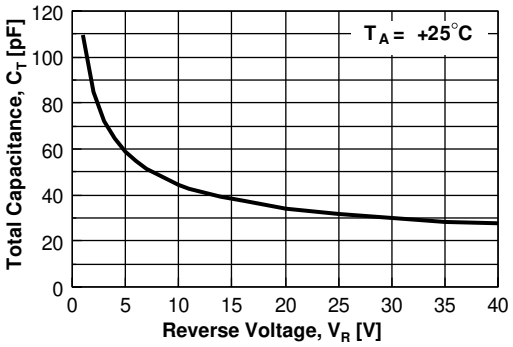


Figure 3. Total Capacitance

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CROSSVOLT™	GlobalOptoisolator™	MicroPak™	QS™	SyncFET™
DOME™	GTO™	MICROWIRE™	QT Optoelectronics™	TinyLogic®
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E^2CMOS™	I^2C™	MSXPro™	RapidConfigure™	TruTranslation™
EnSigna™	*i-Lo*™	OCX™	RapidConnect™	UHC™
FACT™	ImpliedDisconnect™	OCXPro™	µSerDes™	UltraFET®
FACT Quiet Series™		OPTOLOGIC®	SILENT SWITCHER®	VCX™
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The Power Franchise®		PACMAN™	SPM™	
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