February 2015



MBRS140 Schottky Rectifier

Features

- Compact Surface Mount with J-bend Leads (SMB)
- 1.5 W Power Dissipation Package
- 1.0 A, Forward Voltage less than 600 mV



Color Band Denote Cathode

Ordering Information

Part Number	Top Mark	Package	Packing Method
MBRS140	B140	DO-214AA (SMB)	Tape and Reel

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	40	V
I _{F(AV)}	Average Rectified Forward Current at T _L = 120°C	1.0	A
I _{FSM}	Non-Repetitive Peak Forward Surge Current (8.3 ms, Single Half-Sine-Wave)	40	A
T _{STG}	Storage Temperature Range	-65 to +150	°C
ТJ	Operating Junction Temperature	-65 to +125	°C

Thermal Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

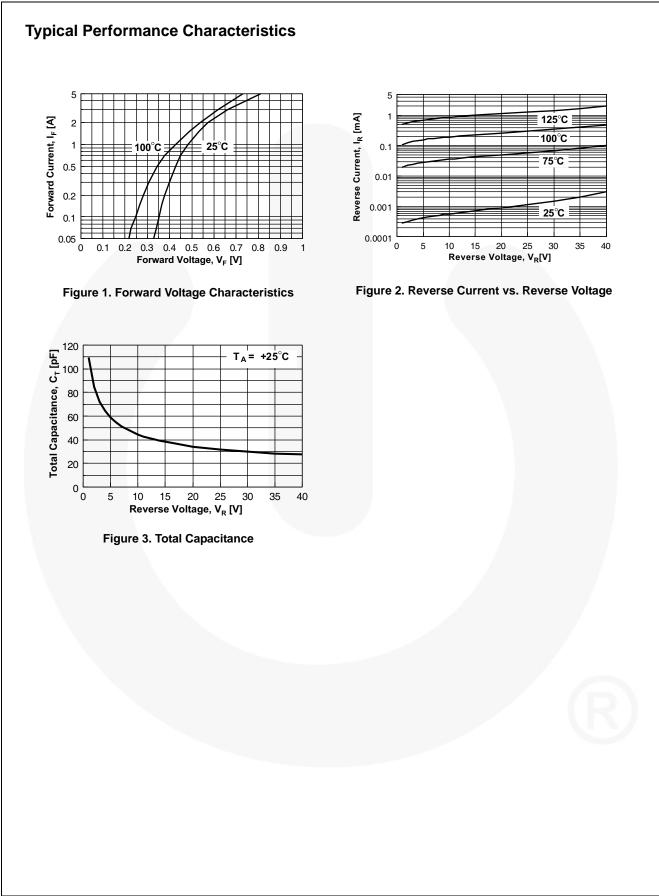
Symbol	Parameter	Value	Unit
R _{θJL}	Thermal Resistance, Junction-to-Lead	12	°C/W

Electrical Characteristics

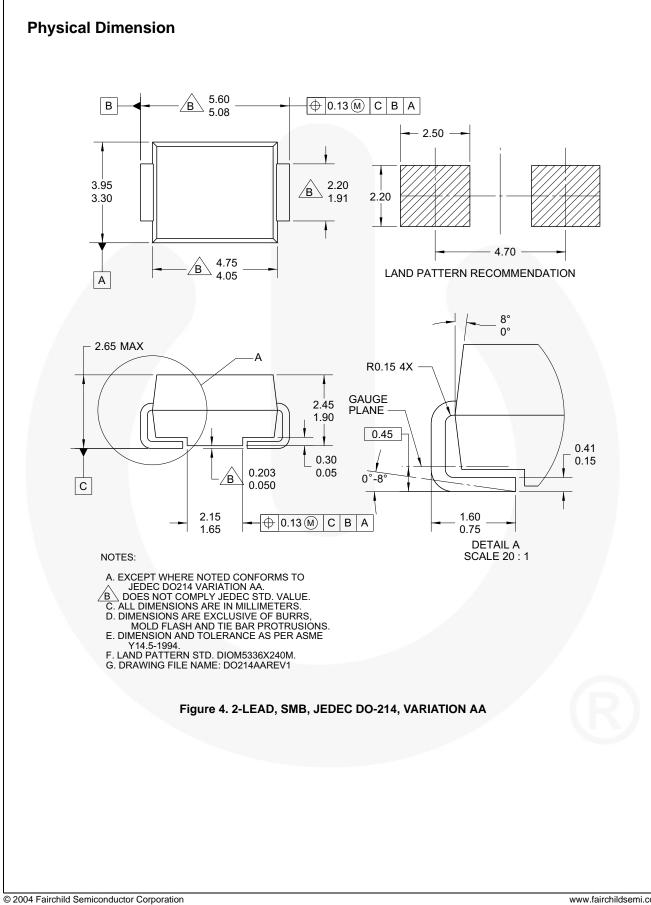
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
V _F	Forward Voltage	I _F = 1.0 A		600	mV
I _R	Reverse Current	V _R = 40 V		1.0	mA
		$V_{R} = 40 \text{ V}, \text{ T}_{A} = 100^{\circ}\text{C}$		10	

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MBRS140 — Schottky Rectifier



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