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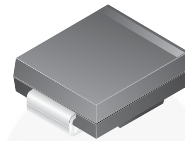
February 2015

MBRS340

Schottky Rectifier

Features

- Compact Surface Mount with J-bend Leads (SMC)
- 3.0 W Power Dissipation Package
- 3.0 A, Forward Voltage less than 500 mV



SMC (DO-214AB)
Color Band Denote Cathode

Ordering Information

Part Number	Top Mark	Package	Packing Method
MBRS340	B34	DO-214AB (SMC)	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 $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	40	V
$I_{F(AV)}$	Average Rectified Forward Current	$T_L = 100^\circ\text{C}$	3.0
		$T_L = 90^\circ\text{C}$	4.0
I_{FSM}	Non-Repetitive Peak Forward Surge Current (Half Wave, Single Phase, 60 Hz)	80	A
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	-65 to +125	$^\circ\text{C}$

Thermal Characteristics

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

Symbol	Parameter	Value	Unit
$R_{\theta JL}$	Thermal Resistance, Junction-to-Lead	11	$^\circ\text{C/W}$

Electrical Characteristics

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

Symbol	Parameter	Conditions	Min.	Max.	Unit
V_F	Forward Voltage	$I_F = 3.0\text{ A}$		525	mV
I_R	Reverse Current	$V_R = 40\text{ V}$		2.0	mA
		$V_R = 40\text{ V}, T_A = 100^\circ\text{C}$		20	

Typical Performance Characteristics

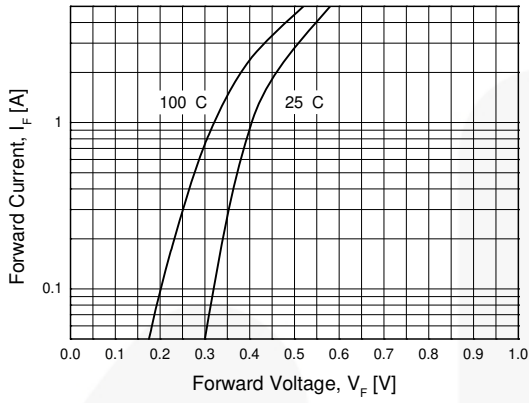


Figure 1. Forward Voltage Characteristics

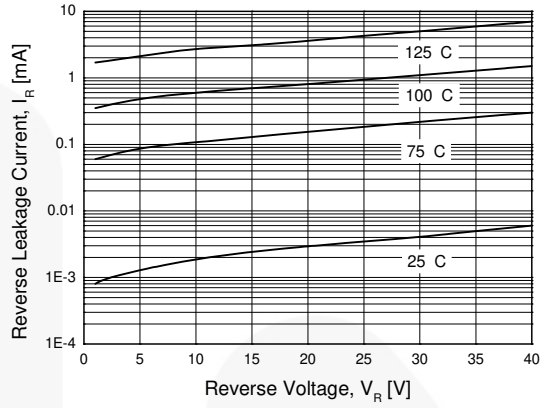


Figure 2. Reverse Current vs. Reverse Voltage

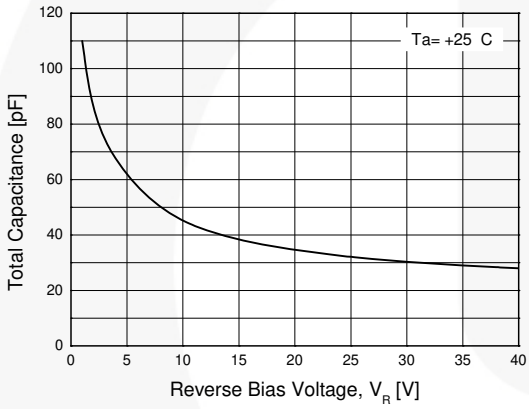
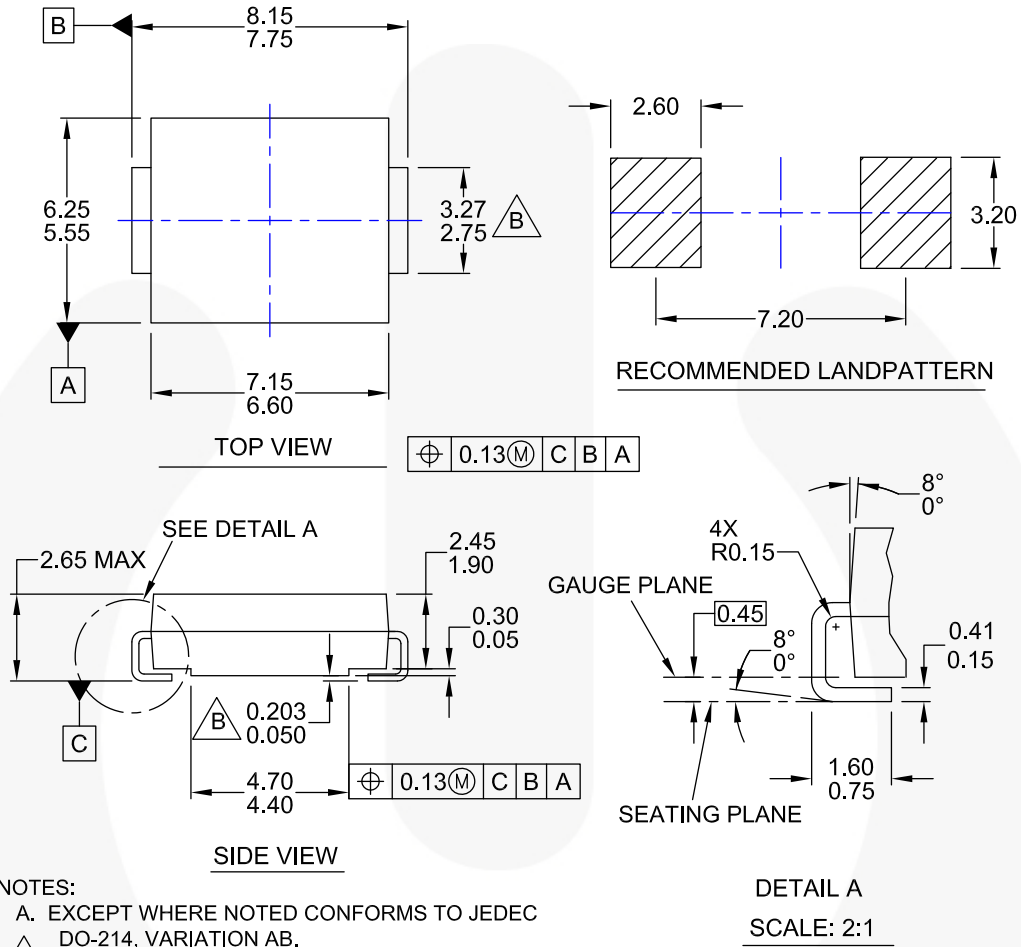


Figure 3. Total Capacitance

Physical Dimension




- NOTES:
- A. EXCEPT WHERE NOTED CONFORMS TO JEDEC DO-214, VARIATION AB.
 - B. DOES NOT COMPLY TO JEDEC STD. VALUE.
 - C. ALL DIMENSIONS ARE IN MILLIMETERS.
 - D. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR PROTRUSIONS.
 - E. DIMENSIONS AND TOLERANCING AS PER ASME Y14.5M-1994
 - F. LAND PATTERN STANDARD: DIOM7957X241M
 - G. DRAWING FILE NAME: DO214ABREV1

Figure 4. 2-LEAD, SMC, JEDEC DO-214, VARIATION AB





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No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

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