

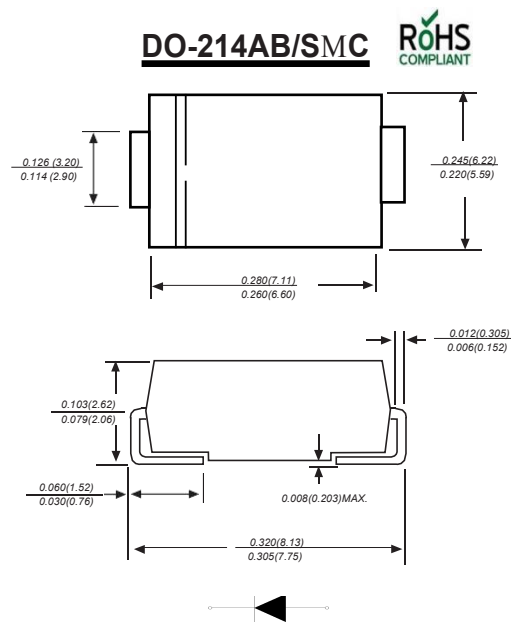
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250 °C/10 seconds at terminals

Mechanical Data

Case : JEDEC DO-214AB/SMC molded plastic body
 Terminals : Solderable per MIL-STD-750, Method 2026
 Polarity : Color band denotes cathode end Mounting
 Position : Any
 Weight : 0.0077 ounce, 0.22 grams



Dimensions in inches and (millimeters)

MARKING DIAGRAM



ORDERING INFORMATION

Device	Package	Shipping
SS34	SMC (Pb-Free)	3000 / Tape & Reel

MAXIMUM RATINGS

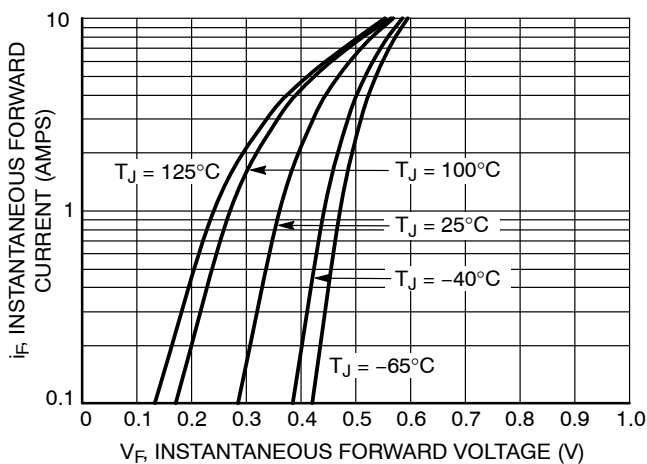
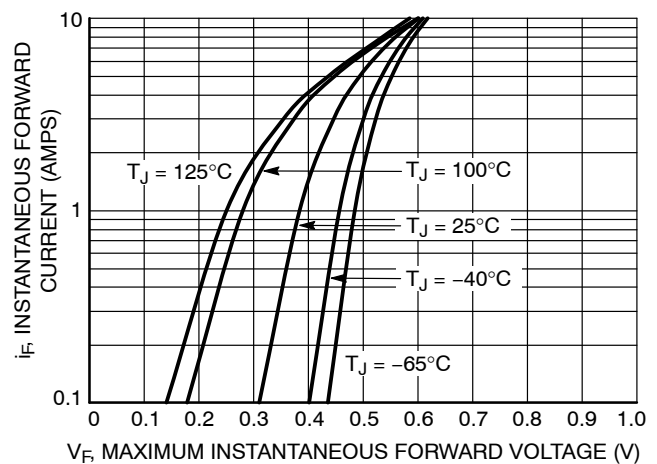
Rating	Symbol	MBRS320T3G, SBRS8320T3G	MBRS330T3G, NRVBR330T3G	MBRS340T3G, SBRS8340T3G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	V
Average Rectified Forward Current	$I_{F(AV)}$	3.0 @ $T_L = 110^\circ\text{C}$ 4.0 @ $T_L = 105^\circ\text{C}$			A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	I_{FSM}	80			A
Operating Junction Temperature	T_J	- 65 to +150			$^\circ\text{C}$
ISO 7637 Pulse #1 (100 V, 10 Ω)		5000			Pulses
ESD Ratings: Machine Model = C Human Body Model = 3B		> 400 > 8000			V

THERMAL CHARACTERISTICS

Thermal Resistance, Junction-to-Lead	$R_{\theta JL}$	11	$^\circ\text{C}/\text{W}$
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ELECTRICAL CHARACTERISTICS

Maximum Instantaneous Forward Voltage (Note 1) ($i_F = 3.0\text{ A}$, $T_J = 25^\circ\text{C}$)	V_F	0.50	V
Maximum Instantaneous Reverse Current (Note 1) (Rated dc Voltage, $T_J = 25^\circ\text{C}$) (Rated dc Voltage, $T_J = 100^\circ\text{C}$)	i_R	2.0 20	mA

TYPICAL ELECTRICAL CHARACTERISTICS

Figure 1. Typical Forward Voltage

Figure 2. Maximum Forward Voltage

TYPICAL ELECTRICAL CHARACTERISTICS (continued)

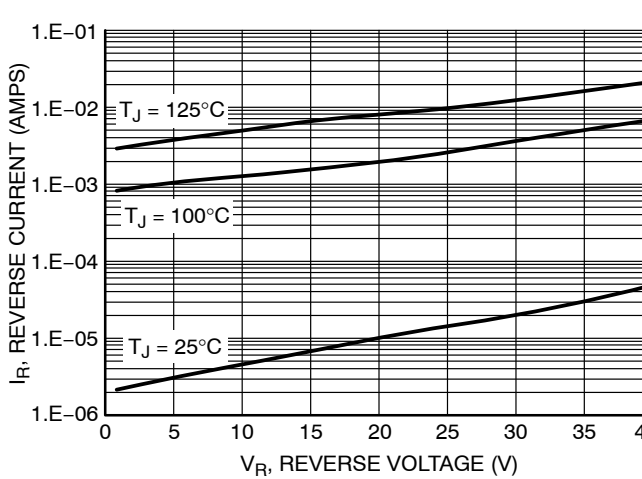


Figure 3. Typical Reverse Current

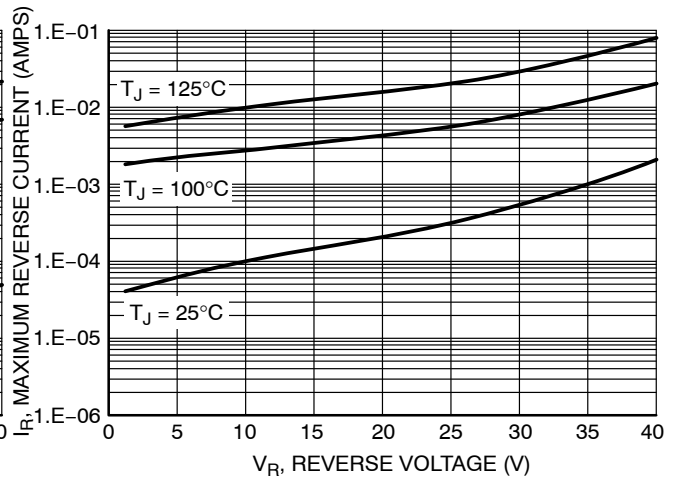


Figure 4. Maximum Reverse Current

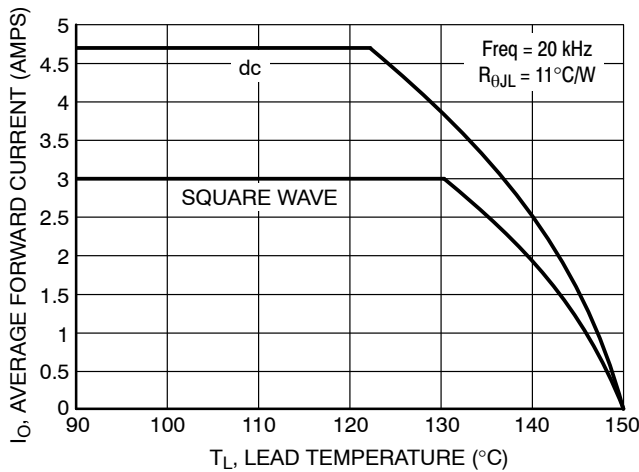


Figure 5. Current Derating

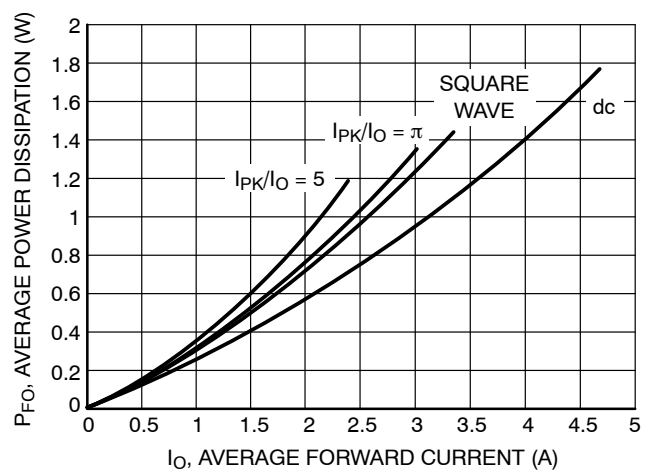


Figure 6. Forward Power Dissipation

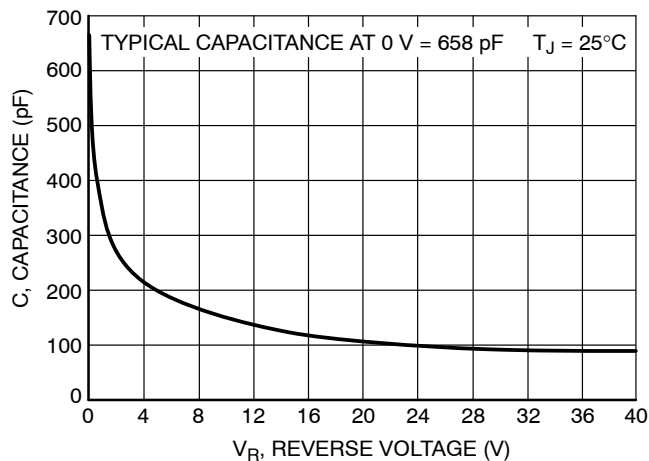


Figure 7. Typical Capacitance