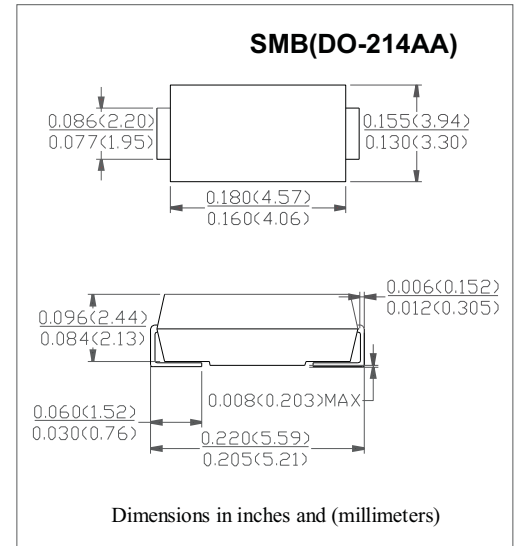


## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

### FEATURES

- High Performance & Reliability best suited for Automotive application
- For surface mount applications
- Metal-Semiconductor Junction with Guarding
- Epitaxial Construction
- Metal-Semiconductor Junction with Guarding Very
- Low forward voltage drop
- High Current capability
- For use in low voltage, high frequency inverters, Free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 250 °C/10 seconds at terminals



### MECHANICAL DATA

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750 Method 2026
- Polarity: Indicated by Cathode Band
- Weight: 0.003ounce, 0.093gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load for capacitive load derate current by 20%.

	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at TL=105°C	I(AV)	2.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50								Amps
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	0.55			0.75		0.85			Volts
Maximum DC Reverse Current at rated DC blocking voltage (Note 1)	I <sub>R</sub>	0.5								mA
		15.0								
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	75								pF
Typical thermal capacitance (Note 2)	RQJL	15								°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125								°C
Storage temperature range	T <sub>STG</sub>	-55 to +150								

### NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to Lead.

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

### RATING AND CHARACTERISTIC CURVES SS22 - SS210

FIG.1-FORWARD CURRENT DERATING CURVE

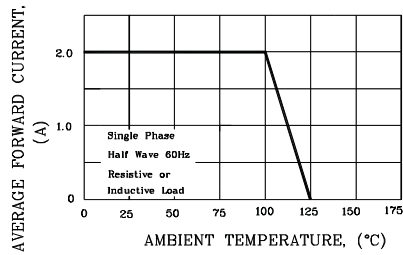


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

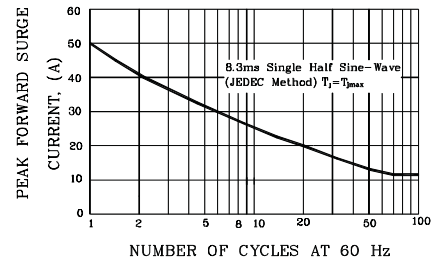


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

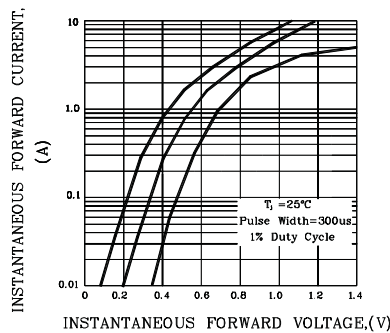


FIG.4-TYPICAL JUNCTION CAPACITANCE

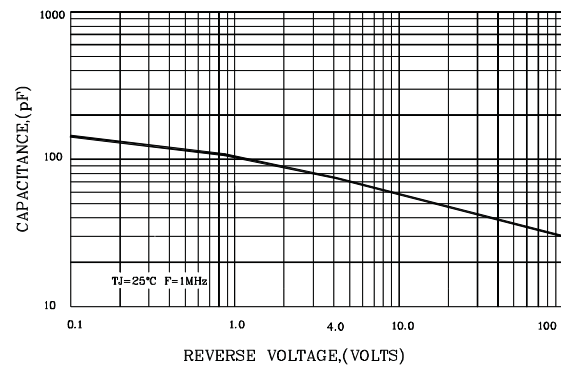
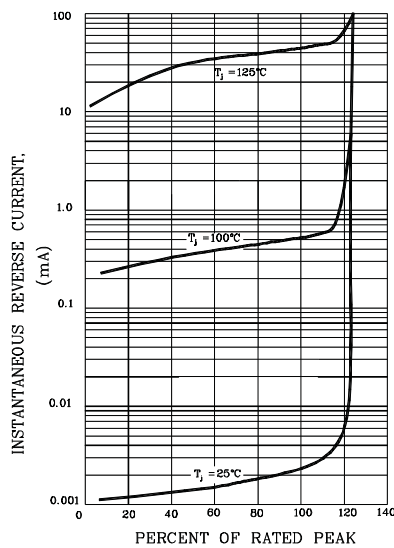


FIG.5-TYPICAL REVERSE CHARACTERISTICS



#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.