

MASTER INSTRUMENT CORPORATION

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER SS22 THRU SS210

VOLTAGE RANGE Forward Current

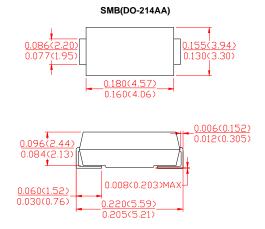
NGE20 to 100 Voltsent2.0 Amperes

FEATURES

- I For surface mount applications
- I Metal-Semiconductor Junction with Guarding
- Epitaxial Construction
- I Metal-Semiconductor Junction with Guarding
- I Very Low forward voltage drop
- I High Current capability
- I For use in low voltage, high frequency inventers, Free wheeling, and polarity protection applications
- High temperature soldering guaranteed:
- 250°C/10 seconds at terminals

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

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 by 20%.

	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at TL=105 $^\circ\!\!\!C$	I _(AV)	2 0								Amps
Peak Forward Surge Current 8 3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50								Amps
Maximum Forward Voltage at 2 0A DC	V _F	0 55 0 75 0 85						Volts		
MaximumDC Reverse Current at rated $T_A=25^{\circ}C$ DC blocking voltage (Note 1) $T_A=100^{\circ}C$	I _R	0 5 15 0								mA
Typical Junction Capacitance (Note 1)	CJ	75								P^{F}
Typical thermal capacitance (Note 2)	R _{QJL}	15								°C/W
Operating Temperature Range	TJ	-55 to +125								°C
Storage temperature range	T _{STG}	-55 to +150								

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Lead.



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RATING AND CHRACTERISTIC CURVES SS22 thru SS210

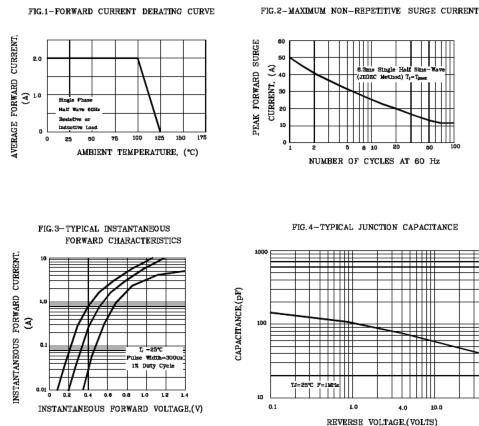
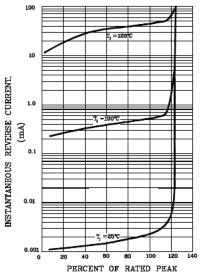


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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