CC ®

GENERAL PURPOSE RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

FEATURES

Low forward voltage drop Low leakage current High forward surge capability

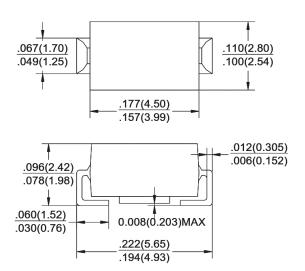
MECHANICAL DATA

Case: SMA-J mold plastic Epoxy: UL94V-0 rate flame retardant Polarity: Indicated by cathode band Lead: Solder plated, solderable per MIL-STD-750 method 2026 Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

SMA - J (DO-214AC)



S1A THRU S1

Dimensions in inches and (millimeters)

For capacitive load derate current by 20%										
PARAMETER		SYMBOL	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNIT
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_A=75^{\circ}C$		I(AV)	1.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)		Ігѕм	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A		VF	1.0						Volts	
Maximum DC Reverse Current	T _A = 25℃	5					– uA			
at Rated DC Blocking Voltage	T _A = 125℃	IR	50							
Typical Junction Capacitance (NOTE 1)		CJ	12							pF
Typical Thermal Resistance (NOTE 2)		Reja	55						°C	
Operating Junction and Storage Temperature Range		TJ,Tstg	-55 to +150							W ۲

1- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

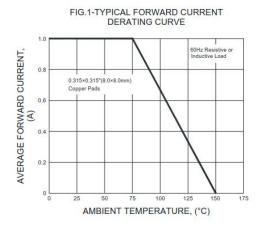
2- Thermal Resistance from Junction to Ambient at. 8.0×8.0mm² copper pad areas.

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RATINGS AND CHARACTERISTIC CURVES



BURNARD SURGE CURRENT

FIG.2-MAXIMUM NON-REPETITIVE PEAK

S1A THRU S1

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

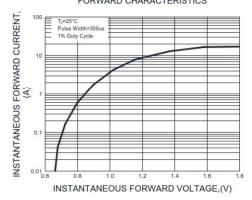
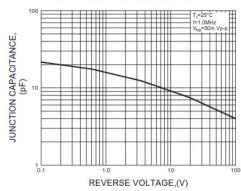


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.

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FIG.4-TYPICAL REVERSE CHARACTERISTICS

