

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

S2AA THRU S2WA

VOLTAGE RANGE 50 to 1600 Volts
CURRENT 2.0 Ampere

FEATURES

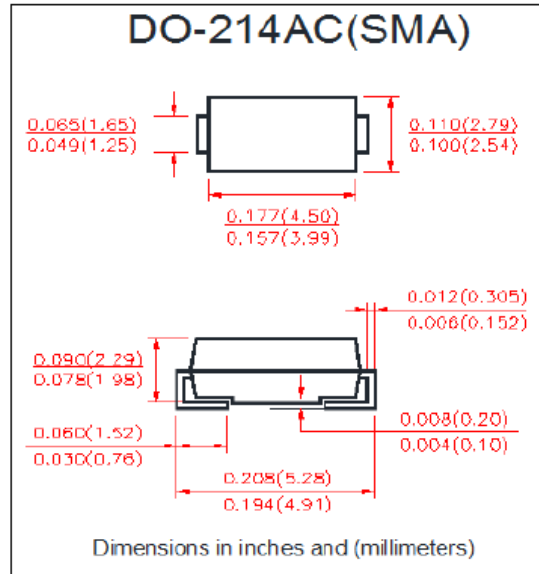
- For surface mounted applications
- Glass passivated junction
- Low profile package
- Built-in strain relief, ideal for automated placement
- Plastic package has underwrites laboratory flammability Classification 94V-0
- High temperature soldering guaranteed: 250°C/10 second at terminals

MECHANICAL DATA

- Case: SMA Molded Plastic
- Terminals: Plated axial lead solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

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	S2AA	S2DA	S2GA	S2JA	S2KA	S2MA	S2TA	S2WA	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	200	400	600	800	1000	1300	1600	Volts
Maximum RMS Voltage	V_{RMS}	35	140	280	480	560	700	910	1120	Volts
Maximum DC Blocking Voltage	V_{DC}	50	200	400	600	800	1000	1300	1600	Volts
Maximum Average Forward Rectified Current (see Fig.1)	$I_{F(AV)}$	2.0								Amps
Rating for fusing, $t < 10$ ms $T_A = 25^\circ\text{C}$	I_{ft}	12								A^2s
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) $T_1=90^\circ\text{C}$	I_{FSM}	50								Amps
Maximum Instantaneous Forward Voltage at 2.0A	V_F	1.15								Volts
Maximum DC Reverse Current at rated DC Blocking Voltage at	I_R	$T_A = 25^\circ\text{C}$								μA
		$T_A = 125^\circ\text{C}$								
Max. Thermal resistance junction to ambient air	$R_{\theta JA}$	60								K/W
Max. Thermal resistance junction to terminal	$R_{\theta JT}$	15								K/W
Operating Temperature Range	T_J	-55 to +150								$^\circ\text{C}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150								$^\circ\text{C}$

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

NOTES:2. Thermal resistance junction to case.

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FIG.1-FORWARD CURRENT DERATING CURVE

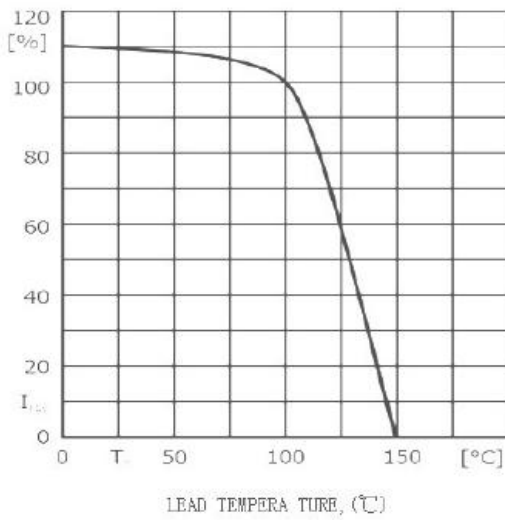


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

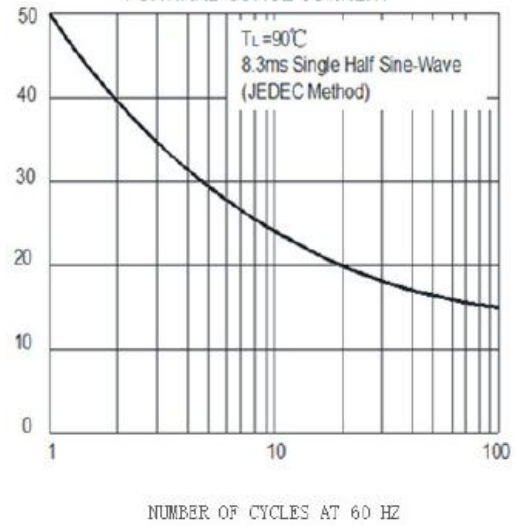


FIG.3 Forward characteristics (typical values)

