

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

S2A THRU S2M

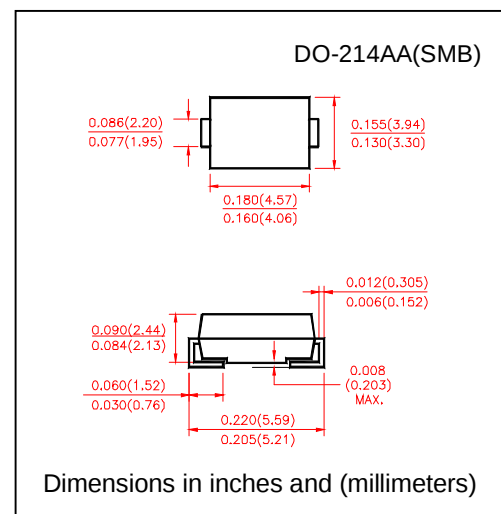
VOLTAGE RANGE	50 to 1000 Volts
CURRENT	2.0 Ampere

FEATURES

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

MECHANICAL DATA

- Case: JEDED DO-214AA molded plastic over glass passivated chip
- Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

	SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _L =100 °C	I _{F(AV)}	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T _L =100 °C	I _{FSM}	50							Amps
Typical Thermal Resistance (NOTE 1)	R _{0JA}	53							°C/W
	R _{0JL}	16							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

		SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		V _F	1.15							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25℃	I _R	5.0							μA
	T _A = 125℃		125							
Typical Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A,		T _{rr}	2.0							μs
Typical junction capacitance at 4.0V, 1MHz		C _J	30							pF

Notes:

- Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.3×0.3" (8.0 × 8.0mm) copper pad areas.

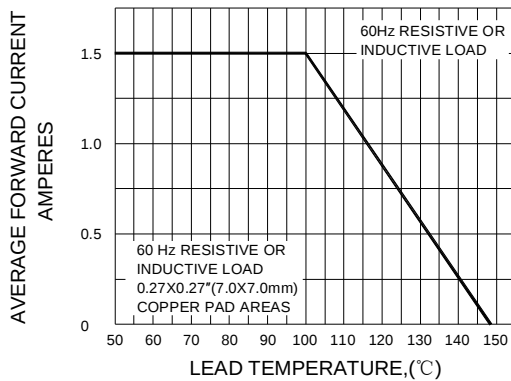
SURFACE MOUNT GLASS PASSIVATED RECTIFIER

S2A THRU S2M

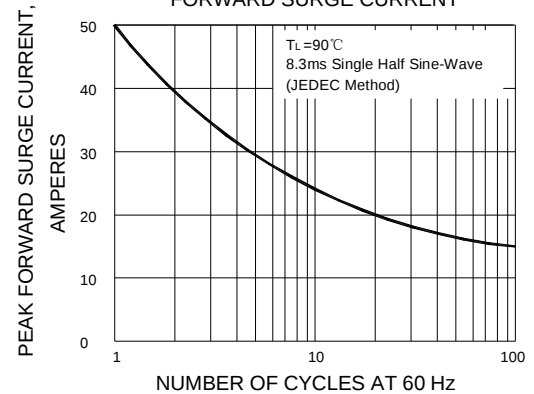
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 2.0 Ampere

RATINGS AND CHARACTERISTIC CURVES S2A THRU S2M

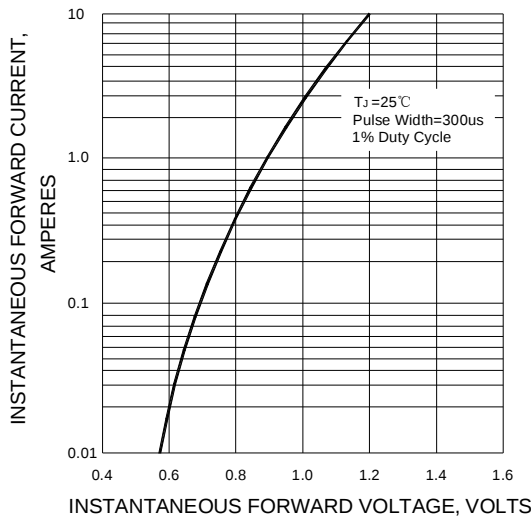
F1G.1-FORWARD CURRENT DERATING CURVE



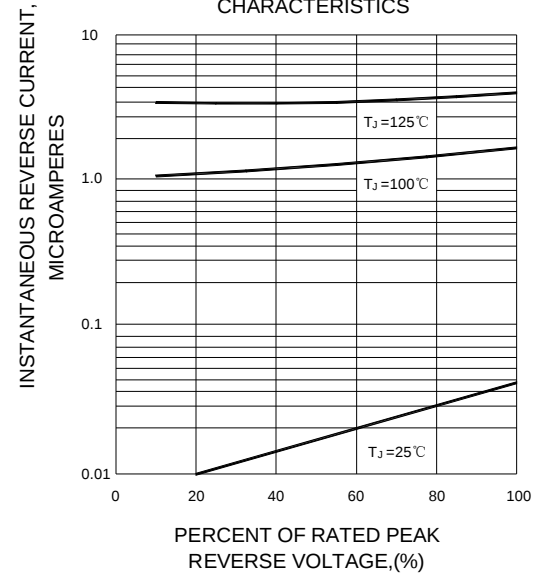
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

