

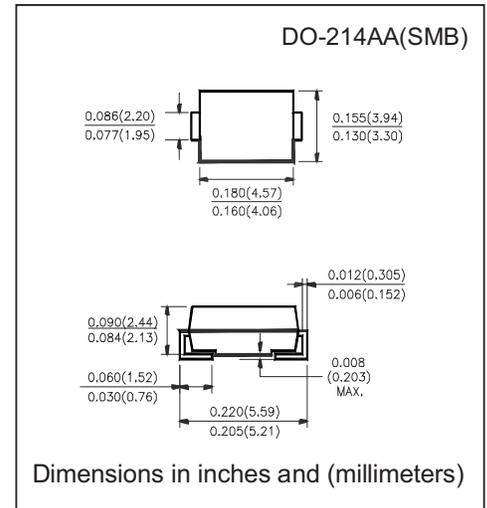
SURFACE MOUNT GLASS PASSIVATED RECTIFIER

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 $T_L=100^\circ\text{C}$	$I_{F(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) $T_L=100^\circ\text{C}$	I_{FSM}	60							Amps
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	53							°C/W
	$R_{\theta JL}$	16							
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

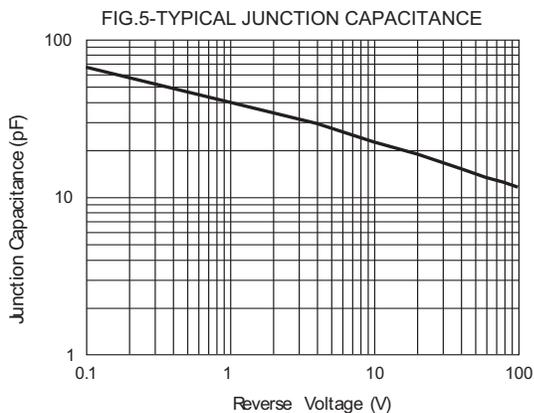
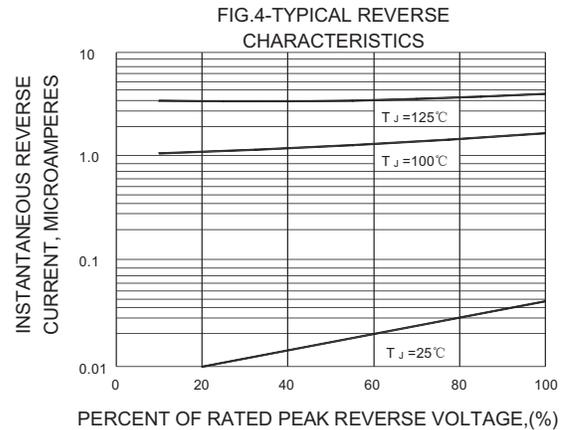
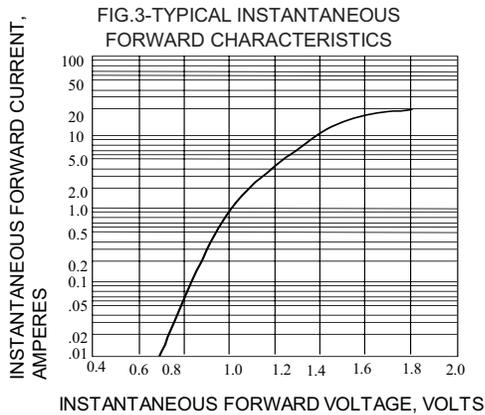
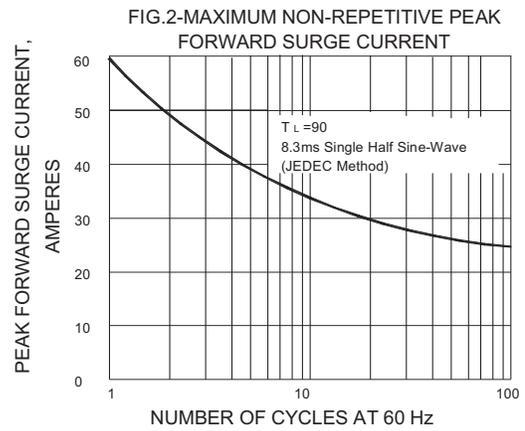
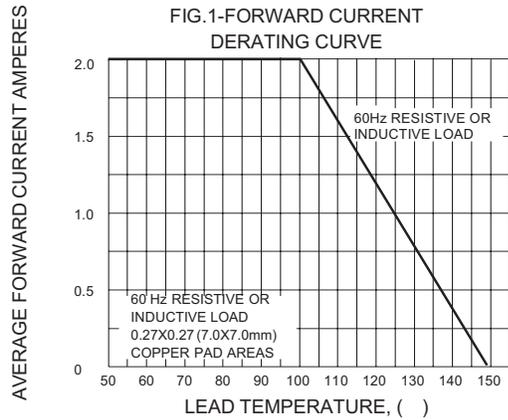
	SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT	
Maximum Instantaneous Forward Voltage at 2A	V_F	1.1							Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	I_R							5.0	μA
	$T_A = 125^\circ\text{C}$								125	
Typical Reverse Recovery Time at $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$,	T_{rr}	2.0							μs	
Typical junction capacitance at 4.0V, 1MHz	C_J	30							pF	

Notes:

1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3 \times 0.3''$ ($8.0 \times 8.0\text{mm}$) copper pad areas.

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RATINGS AND CHARACTERISTIC CURVES S2A - S2M



Disclaimer

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