

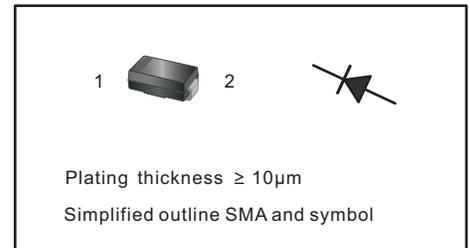
SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

FEATURES

- High Performance & Reliability best suited for Automotive application
- Glass passivated junction
- Fully automated hands free production line assures THE BEST consistant quality
- Built-in strain relief, ideal for automated placement
- Plastic package has underwrites laboratory flammability Classification 9 4V-0
- High temperature soldering guaranteed: 250□/10 s econd at terminals

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MECHANICAL DATA

- Case: JEDED SMA (DO-214AC) molded plastic
- Terminals: Plated axial lead solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.002ounce, 0.064 g

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%

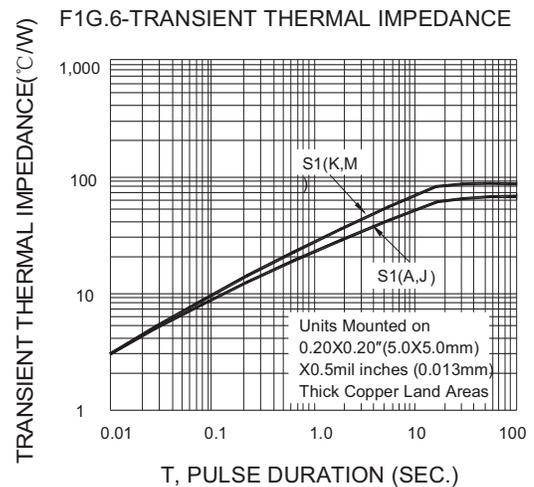
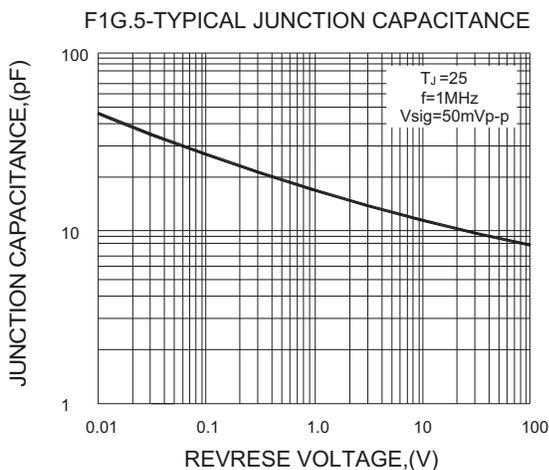
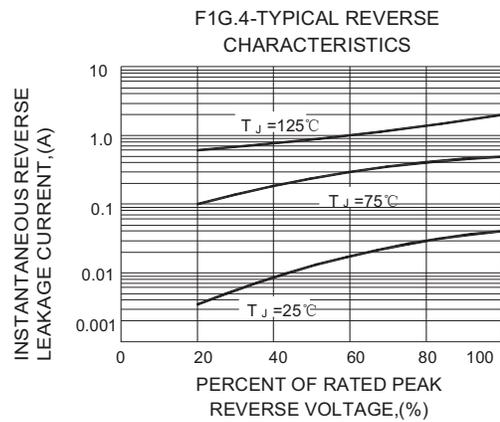
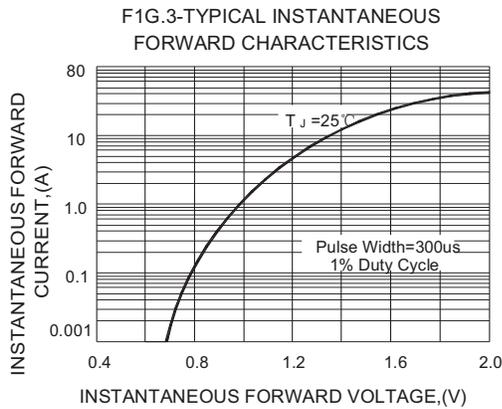
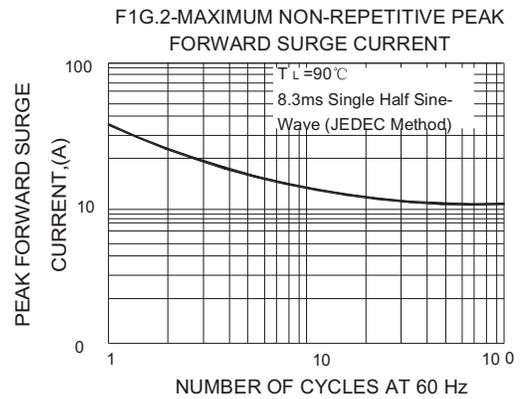
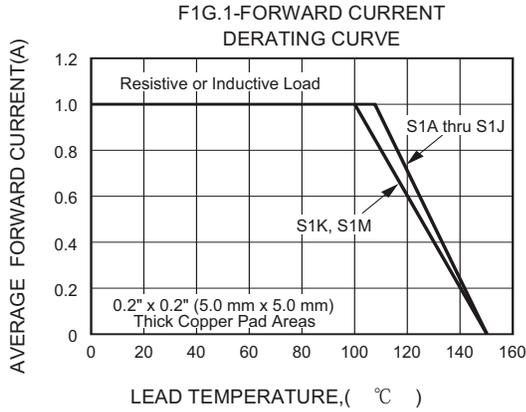
PARAMETER	SYMBOLS	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (see Fig.1)	$I_{F(AV)}$	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) $T_L=90^{\circ}C$	I_{FSM}	35							Amps
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.1							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage at	I_R	$T_A = 25^{\circ}C$							μA
		$T_A = 125^{\circ}C$							
Typical Junction Resistance (NOTE 1)	$R_{\theta JA}$	85							$^{\circ}C/W$
	$R_{\theta JL}$	30							
Revers recovery time(NOTE 2)	t_{rr}	1.5							μs
Typical Junction Capacitance (Note 1)	C_j	12							PF
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^{\circ}C$
Operating Junction Temperature Range	T_{JC}	-55 to +175							$^{\circ}C$

Notes:

1. Thermal resistance from Junction to ambient and from junction to lead mounted on 0.2×0.2" (5.0 × 5.0mm) copper pad areas.
2. Reverse recovery test condition: $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$

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RATINGS AND CHARACTERISTICS CURVES S1A - S1M

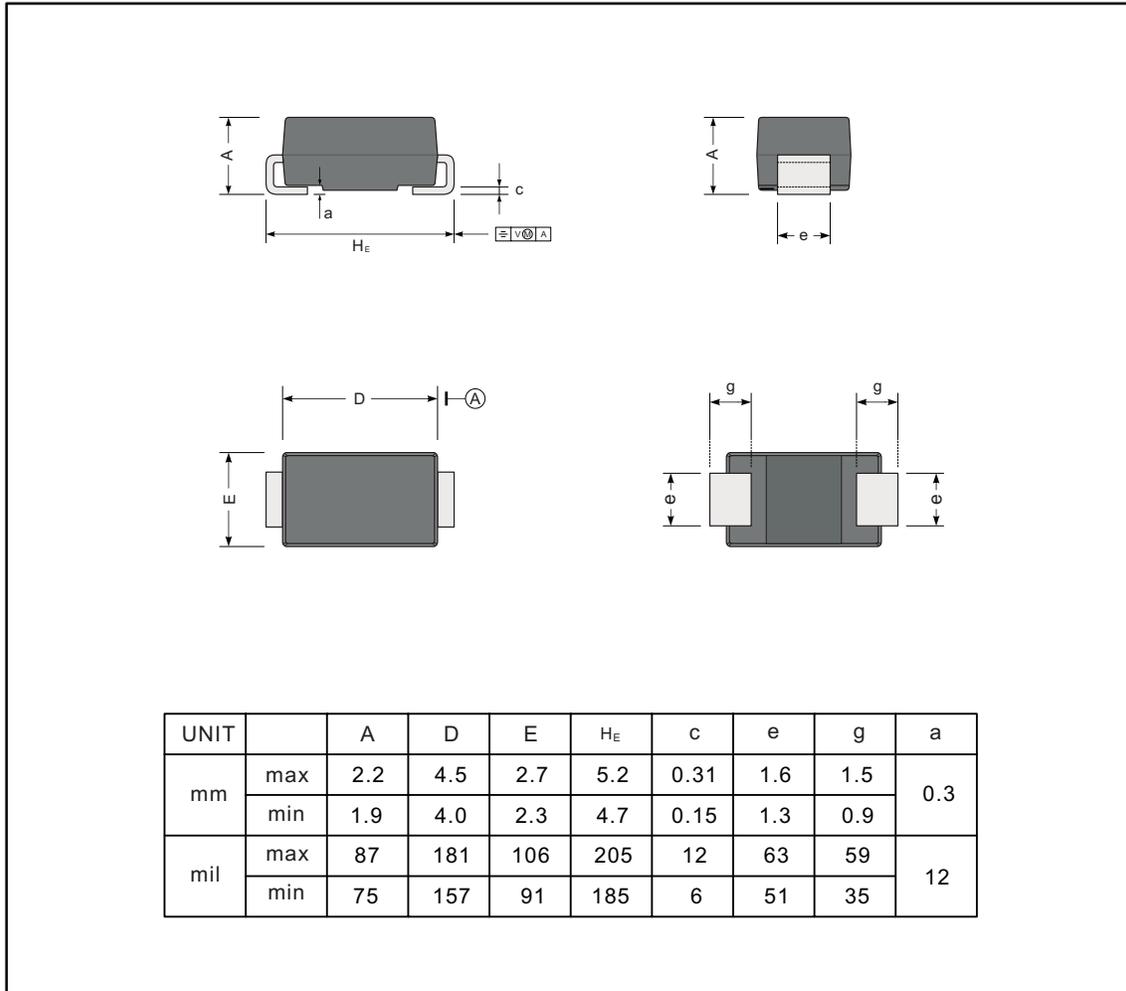


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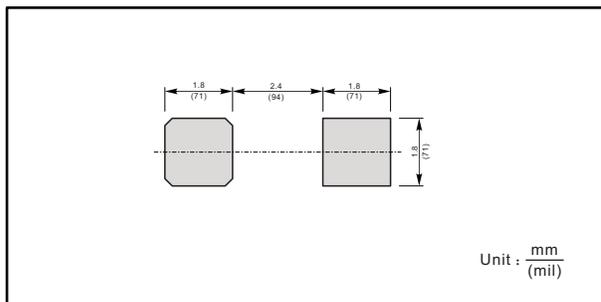
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



Marking

Type number	Marking code
S1A	S1A
S1B	S1B
S1D	S1D
S1G	S1G
S1J	S1J
S1K	S1K
S1M	S1M

Disclaimer

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