

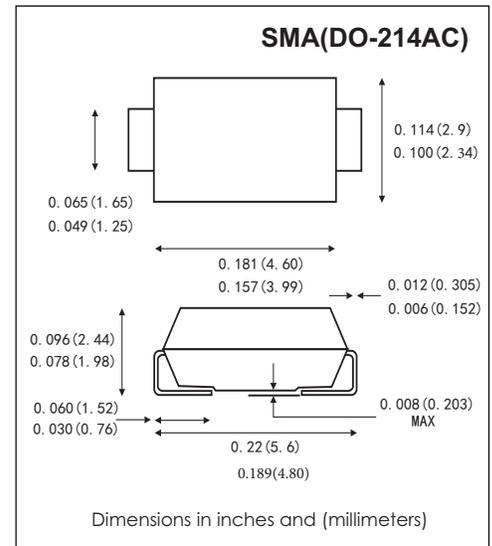
## SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

### FEATURES

- Glass passivated junction
- Fully automated hands free production line assures THE BEST constant quality
- High performance & reliability best suited for automotive application
- Built-in strain relief, ideal for automated placement
- Plastic package has underwrites laboratory flammability Classification 9 4V-0
- High temperature soldering guaranteed:  
250°C/10 s econd a t terminals

### 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%

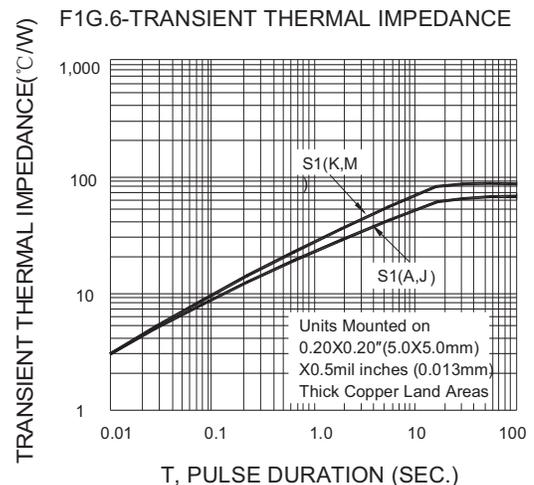
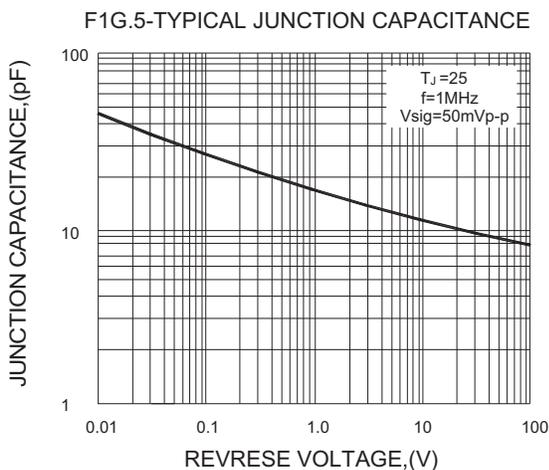
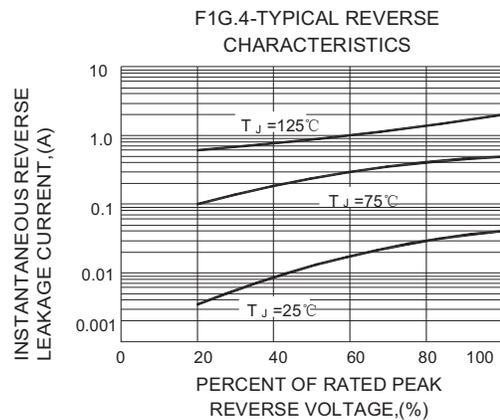
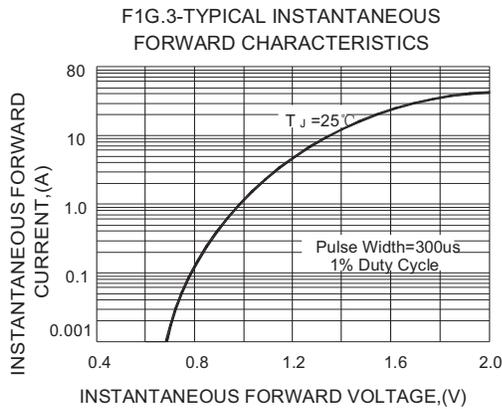
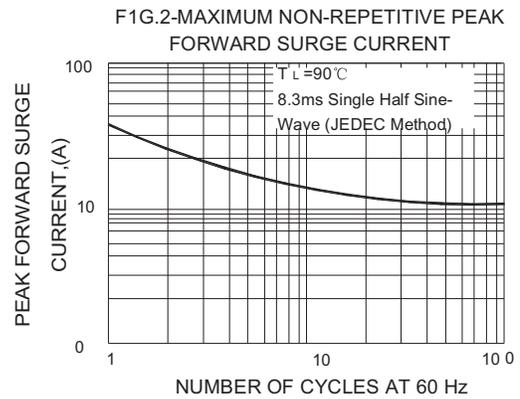
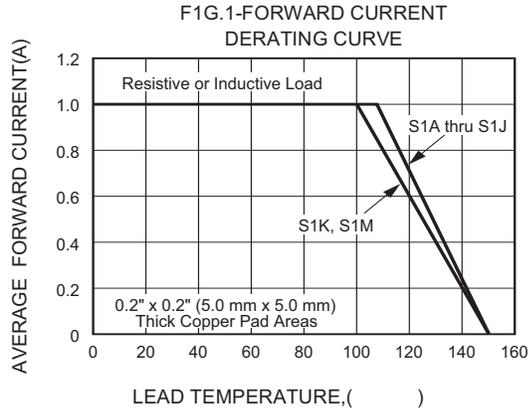
PARAMETER	SYMBOLS	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNIT	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified 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) $T_L=90^\circ\text{C}$	$I_{FSM}$	35							Amps	
Maximum Instantaneous Forward Voltage at 1.0A	$V_F$	1.1							Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage at	$I_R$	$T_A = 25^\circ\text{C}$	5.0							$\mu\text{A}$
		$T_A = 125^\circ\text{C}$	50							
Typical Junction Resistance (NOTE 1)	$R_{\theta JA}$	85							$^\circ\text{C/W}$	
	$R_{\theta JL}$	30								
Revers recovery time(NOTE 2)	$t_{rr}$	1.8							$\mu\text{s}$	
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							$^\circ\text{C}$	
Typical Junction Capacitance (Note 1)	$C_j$	15							PF	

#### 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:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{rr}=0.25\text{A}$

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### RATINGS AND CHARACTERISTICS CURVES S1A - S1M



#### Disclaimer

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