

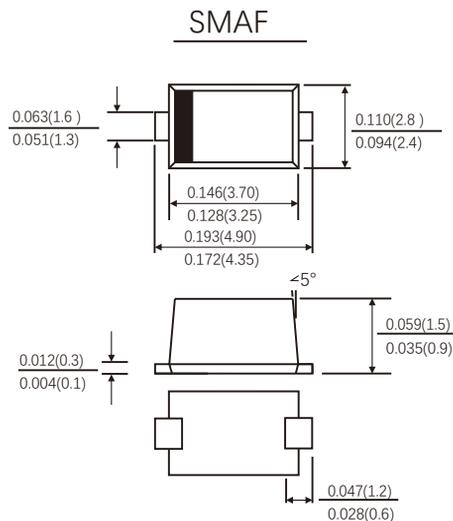
### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



### MECHANICAL DATA

- Case: SMAF molded plastic package
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.0001023 oz., 0.029g(Approx)



Dimensions in inches and (millimeters)

### 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 by 20%.)

Parameters	Symbols	S2AS	S2BS	S2DS	S2GS	S2JS	S2KS	S2MS	Units	
Maximum Recurrent 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	$I_{(AV)}$	2.0							Amps	
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50							Amps	
Maximum Instantaneous Forward Voltage at 2.0 A(Note 1)	$V_F$	1.1							Volts	
Maximum Reverse current at rated DC Blocking Voltage	$T_j=25^\circ\text{C}$	$I_R$							5.0	$\mu\text{A}$
	$T_j=125^\circ\text{C}$									
Typical Thermal resistance (Note 2)	$R_{thJA}$	75							$^\circ\text{C/W}$	
	$R_{thJL}$	27								
Operating and Storage temperature Range	$T_j$ $T_{STG}$	-55 to+150							$^\circ\text{C}$	

Note: 1.Pulse test: 300 $\mu\text{s}$  pulse width.

2.Thermal resistance from junction to ambient and from junction to lead,Mounted on PCB With 0.2X0.2" (5.0X5.0mm) copper pad areas.

FIG.1-FORWARD CURRENT DERATING CURVE

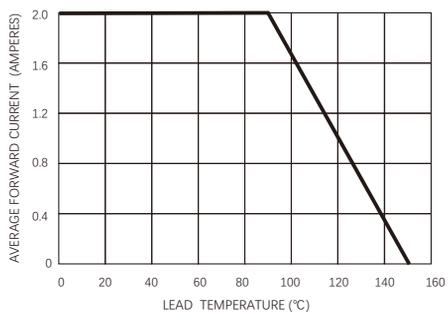


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

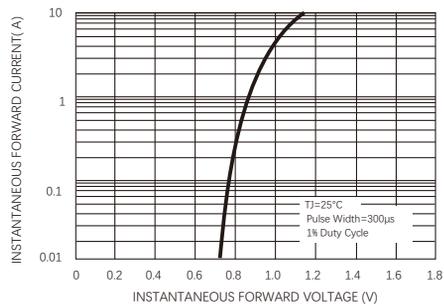


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

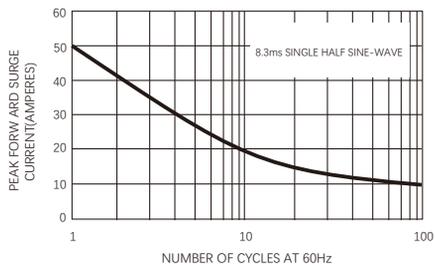
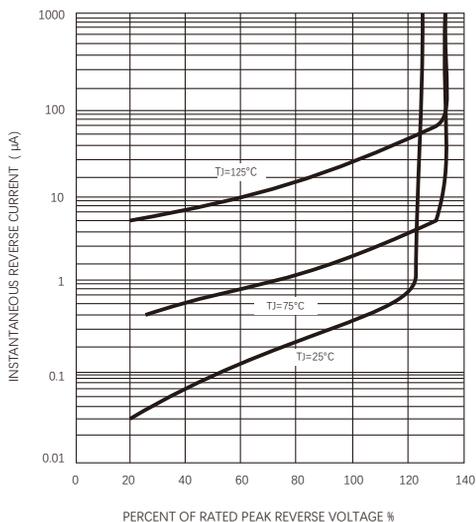


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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