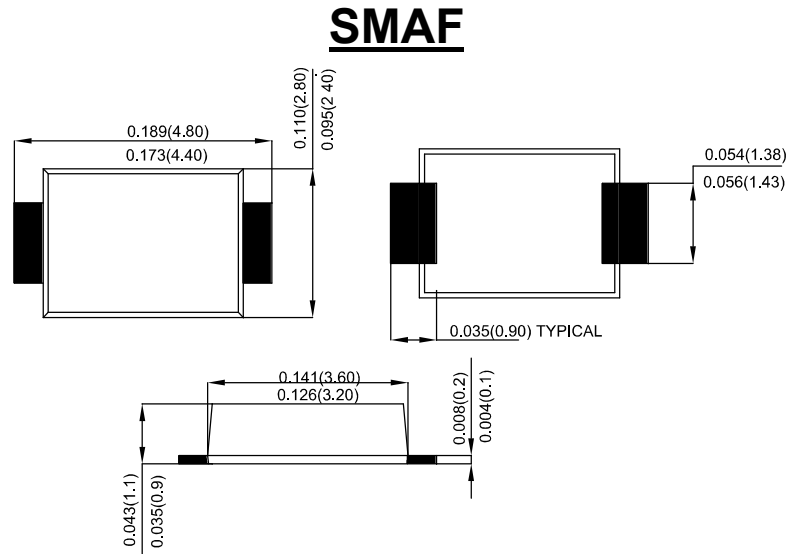


### Features

- Fast switching for high efficiency
- Low Power Loss,High Efficiency
- High current capability
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: Molded plastic SMAF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity:Cathode Band or Cathode Notch
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

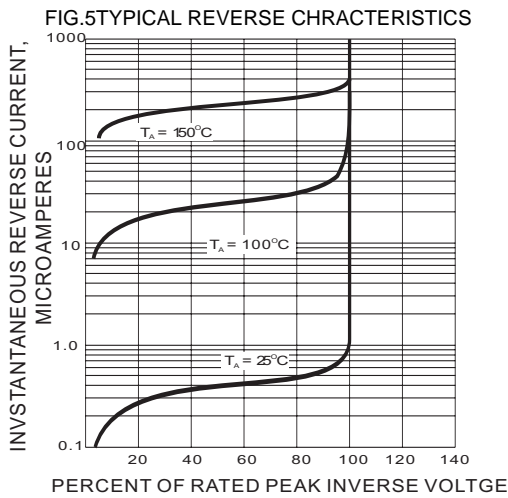
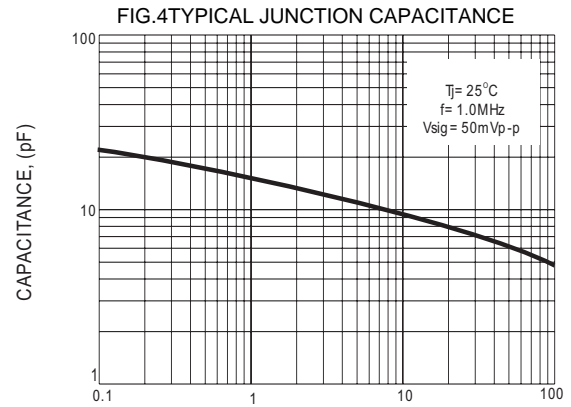
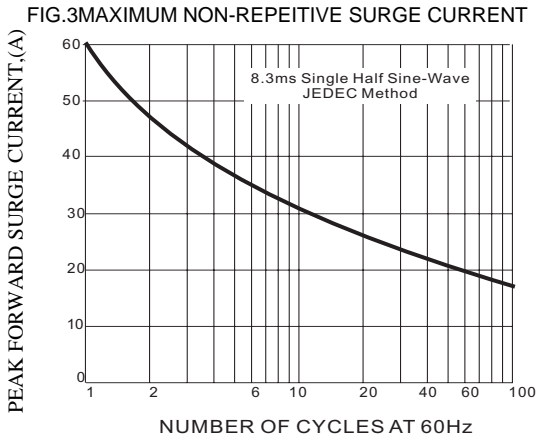
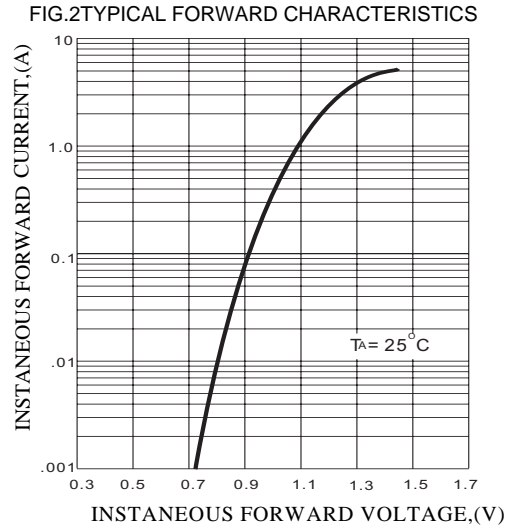
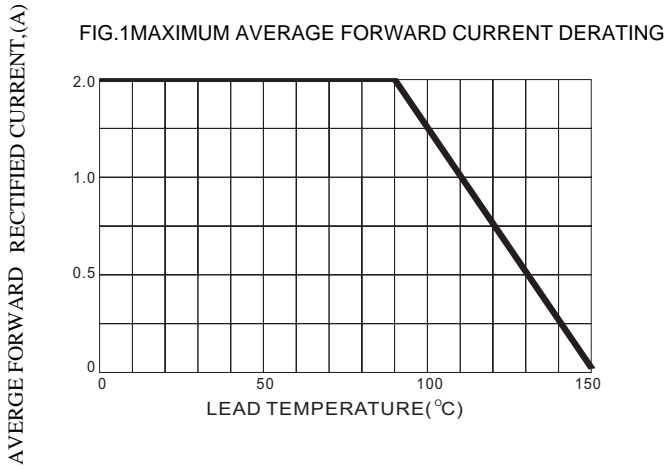
For capacitive load derate current by 20%

Type Number	SYMBOL	R2A	R2B	R2D	R2G	R2J	R2K	R2M	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ $T = 90^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60							A
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	14.940							$\text{A}^2\text{s}$
Forward Voltage @ $I_F=2.0\text{A}$	$V_{FM}$	1.3							V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	$I_R$	5.0							uA
At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$		150							
Maximum Reverse Recovery Time (Note 1)	$T_{rr}$	150			250		500		ns
Typical Junction Capacitance (Note 2)	$C_J$	12							pF
Typical Thermal Resistance Junction to Ambient (Note 3)	$R_{\theta JA}$	100							$^\circ\text{C/W}$
	$R_{\theta JL}$	32							
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

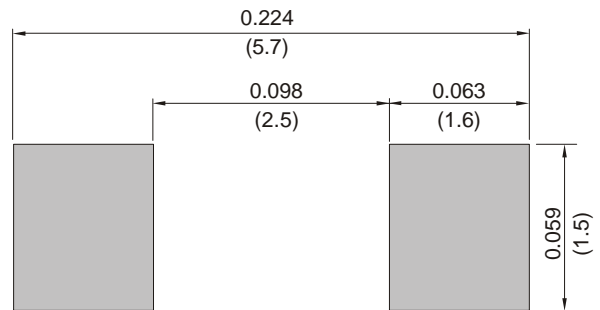
Note: 1. Reverse Recovery Test Conditions:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RR}=0.25\text{A}$ .

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3.  $8.0\text{mm}^2$  (.013mm thick) land areas.



**Fig.6 TYPICAL CAPACITANCE**



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