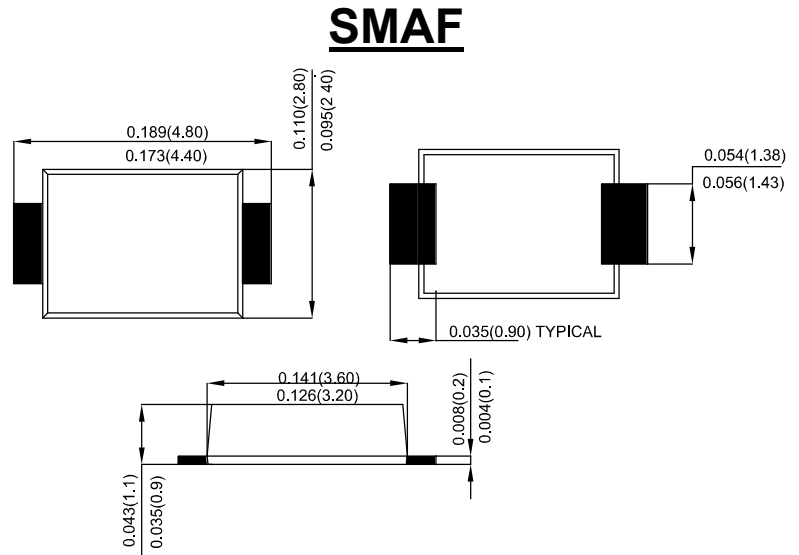


Features

- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Guard Ring Die Construction
- 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: Color band dented cathode end
- Mounting Position: Any
- Making: Type Number



Maximum Ratings and Electrical Characteristics

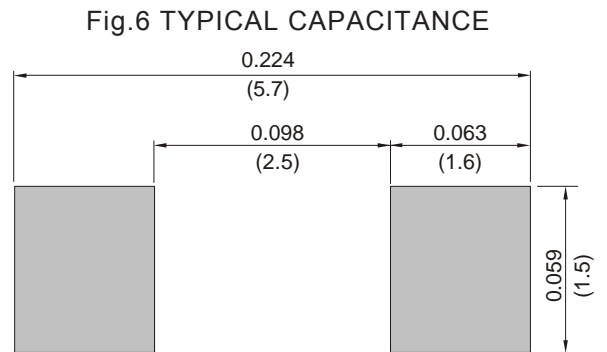
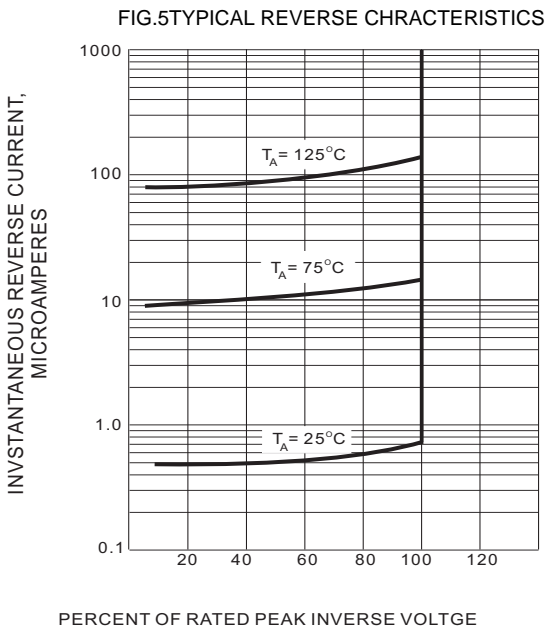
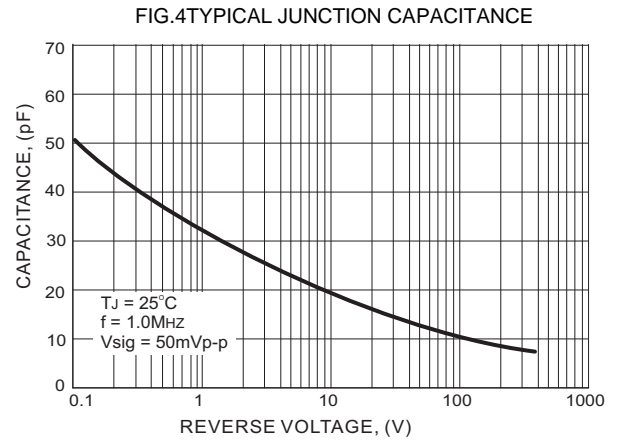
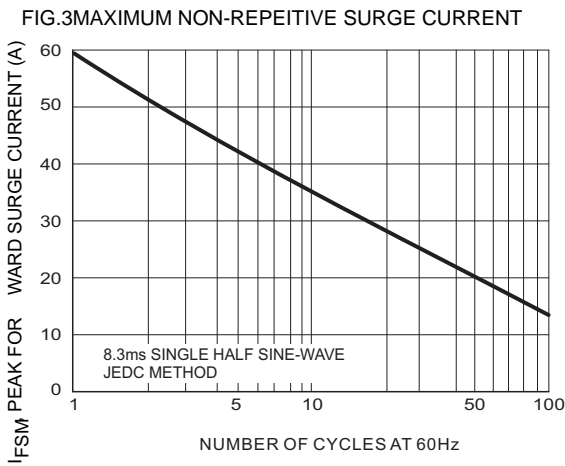
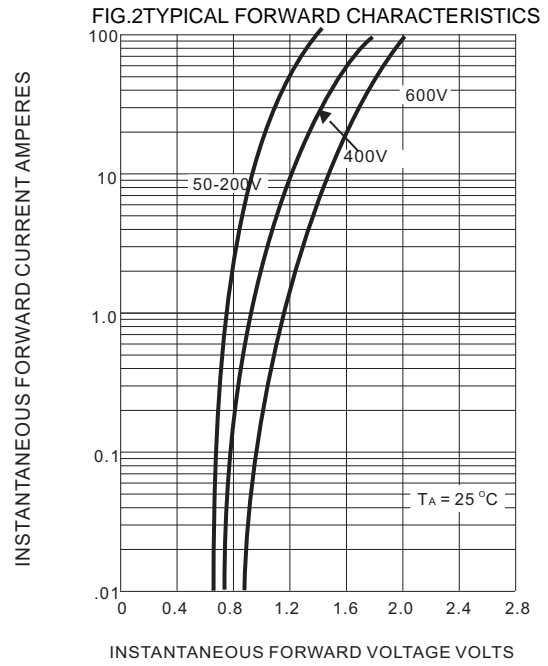
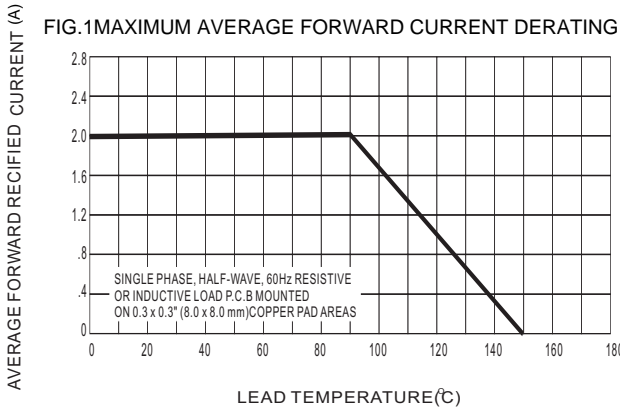
Rating at 25°C ambient temperature unless otherwise specified

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

For capacitive load derate current by 20%

Type Number	SYMBOL	E2A	E2B	E2D	E2G	E2J	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Average Rectified Output Current @ $T_L=90^\circ\text{C}$	$I_{F(AV)}$	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					A^2s
Forward Voltage @ $I_F=2.0\text{A}$	V_{FM}	0.95		1.25		1.7	V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	I_R	5.0					μA
At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$		150					
Maximum Reverse Recovery Time (Note 1)	T_{rr}	35					ns
Typical Junction Capacitance (Note 2)	C_J	25					pF
Typical Thermal Resistance Junction to Ambient (Note 3)	$R_{\theta JA}$	34					$^\circ\text{C}/\text{W}$
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. 8.0MM² (.013mm Thick) Land Areas.



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