

E1A THRU E1J

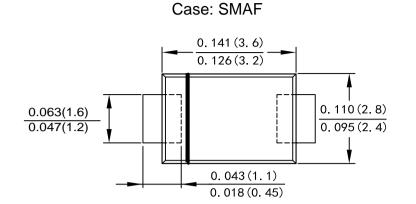
1.0AMP Surface Mount Glass Superfast Recovery Rectifier

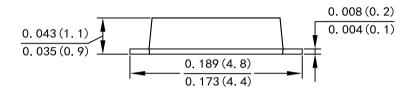
Features

- · 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 dentes cathode end
- · Mounting Position: Any
- Making: Type Number





Dimiensions in inches and (milimeters)

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	E1A	E1B	E1D	E1G	E1J	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	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∟=90 °C	İ F(AV)	1.0					А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	м 35					А
I ² t Rating for Fusing (t < 8.3ms)	l²t	5.084					A ² s
Forward Voltage @IF=1.0A	V _{FM}		0.95		1.3	1.7	V
Peak Reverse Current @T _A =25 ℃		5.0					
At Rated DC Blocking Voltage @T₄=125 ℃	150						uA
Maximum Reverse Recovery Time (Note1)	Trr	35					ns
Typical Junction Capacitance (Note 2)	CJ	10					pF
Typical Thermal Resistance Junction to Ambient(Note 3)	R0 JA	75					°C/W
Operating Temperature Range	TJ	-55 to+150					$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150					$^{\circ}$

- Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.
 - 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
 - 3.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.06"*0.09" copper pad.

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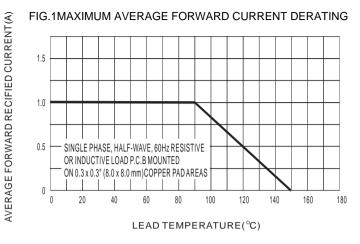
 $I_{\mathsf{FSM}},\,\mathsf{PEAK}\,\mathsf{FORWARD}\,\mathsf{SURGE}\,\mathsf{CURRENT}\,\mathsf{(A)}$

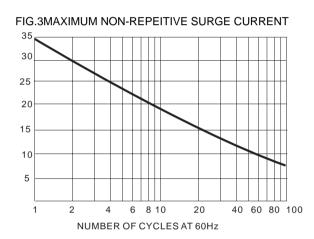
INVSTANTANEOUS REVERSE CURRENT,

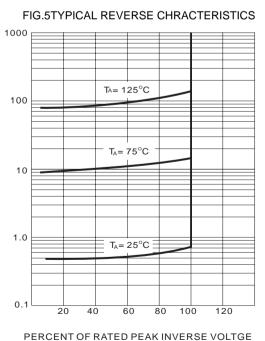
MICROAMPERES (uA)

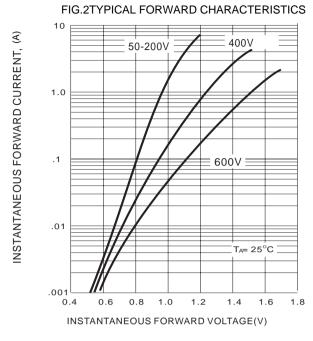
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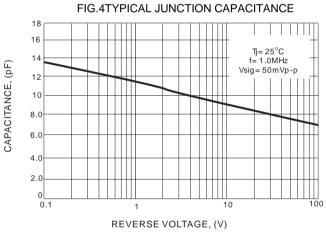
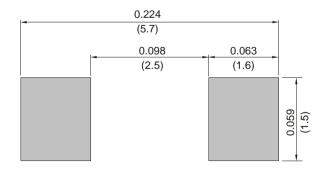


Fig.6 TYPICAL CAPACITANCE



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