
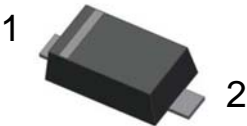

 <p>E1A-E1J</p> <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> For surface mounted applications <input type="checkbox"/> Low profile package <input type="checkbox"/> Glass Passivated Chip Junction <input type="checkbox"/> Superfast reverse recovery time <input type="checkbox"/> Lead free in comply with EU RoHS 2011/65/EU directives 	<p style="text-align: center;">SOD-123FL</p>    <p style="text-align: center;">1.Cathode 2. Anode</p>
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Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

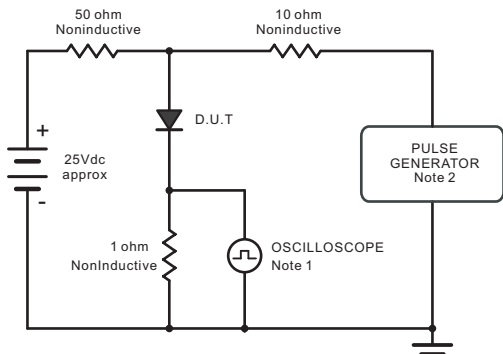
Parameter	Symbols	E1A	E1B	E1C	E1D	E1E	E1G	E1J	Units	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	V	
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	V	
Maximum Average Forward Rectified Current at $T_c = 125^\circ\text{C}$	$I_{F(AV)}$	1							A	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	30							A	
Maximum Forward Voltage at 1 A	V_F	1				1.25		1.68	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	I_R	5				100			μA	
Typical Junction Capacitance at $V_R=4\text{V}$, $f=1\text{MHz}$	C_j	15								pF
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	35								ns
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	85								$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							$^\circ\text{C}$	

(1) Measured with $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$.

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Typical Characteristics

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max.
Input Impedance = 1megohm,22pF.
2. Rise Time = 10ns, max.
Source Impedance = 50 ohms.

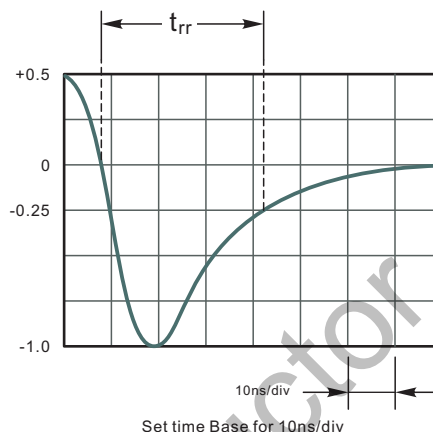


Fig.2 Maximum Average Forward Current Rating

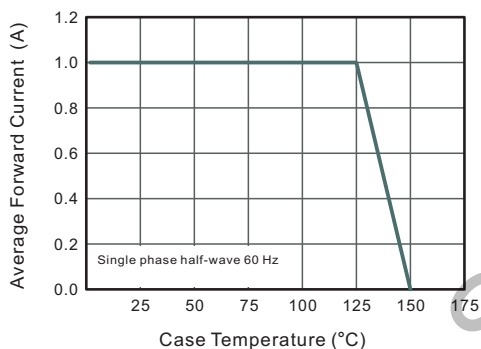


Fig.3 Typical Reverse Characteristics

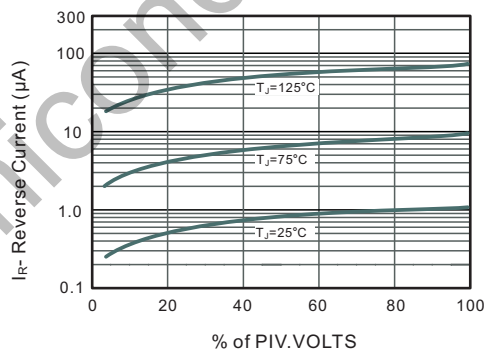


Fig.4 Typical Forward Characteristics

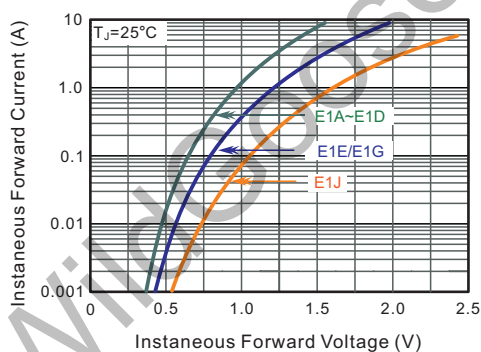


Fig.5 Typical Junction Capacitance

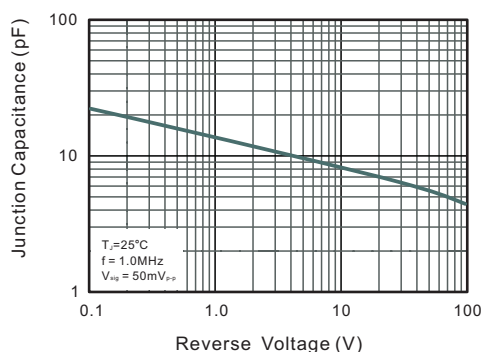
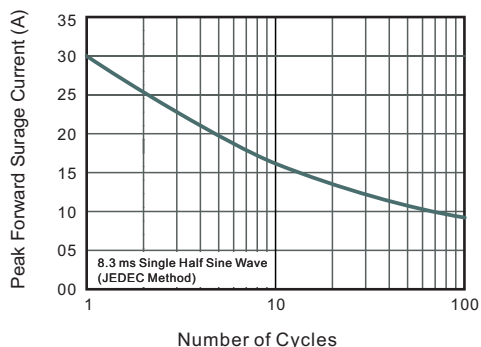
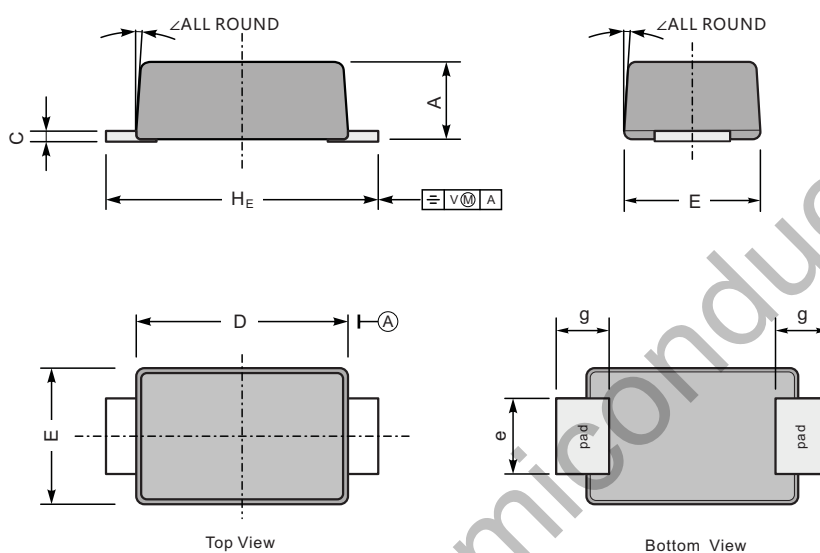


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

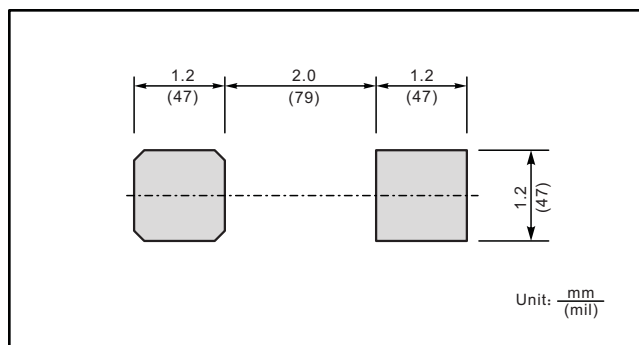


Package Dimension**SOD-123FL**

Unit: mm



UNIT		A	C	D	E	e	g	H_E	\angle
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size

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