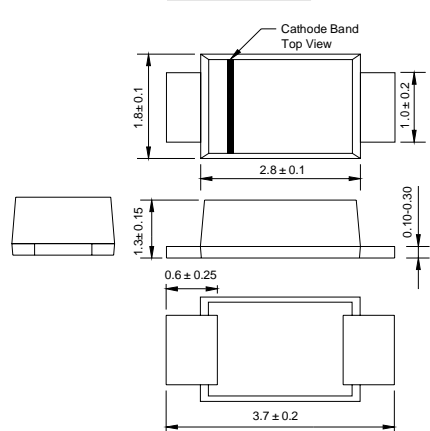


FR101 THRU FR107

SOD-123FL		FEATURES								
 <p style="text-align: center;">Dimensions in millimeters</p>		<ul style="list-style-type: none"> ◆ Glass passivated device ◆ Ideal for surface mouted applications ◆ Low reverse leakage ◆ Metallurgically bonded construction ◆ High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension 								
		MECHANICAL DATA								
		<p>Case: JEDEC SOD-123FL molded plastic body over passivated chip Terminals: Solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.0007 ounce, 0.02 grams</p>								
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 current derate by 20%.										
Catalog Number	SYMBOLS	FR101 F1	FR102 F2	FR103 F3	FR104 F4	FR105 F5	FR106 F6	FR107 F7	UNITS	
Maximum repetitive 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 at $T_A=65^\circ\text{C}$ (NOTE 1)	$I_{(AV)}$	1.0							Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) $T_L=25^\circ\text{C}$	I_{FSM}	25.0							Amps	
Maximum instantaneous forward voltage at 1.0A	V_F	1.3							Volts	
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	I_R	10.0 50.0							μA	
Maximum reverse recovery time (NOTE 2)	t_{rr}	150				250	500		ns	
Typical junction capacitance (NOTE 3)	C_J	4							pF	
Typical thermal resistance (NOTE 4)	$R_{\theta JA}$	180							K/W	
Operating junction and storage temperature range	T_J, T_{STG}	-50 to +150							$^\circ\text{C}$	
<p>Note: 1. Averaged over any 20ms period. 2. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$. 3. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 4. Thermal resistance junction to ambient, 6.0 mm² copper pads to each terminal.</p>										

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FIG.1 – TYPICAL FORWARD CHARACTERISTIC

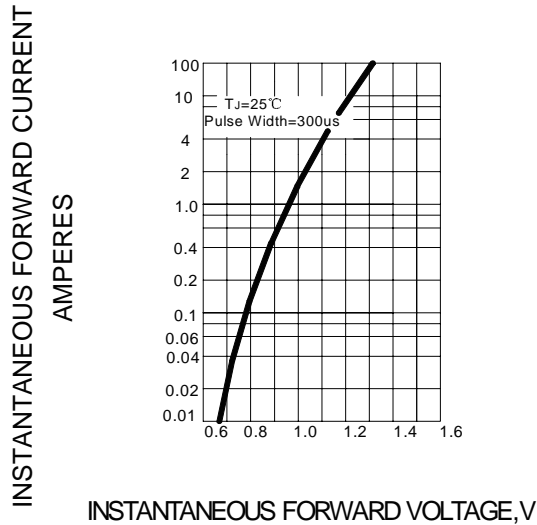


FIG.2 – TYPICAL JUNCTION CAPACITANCE

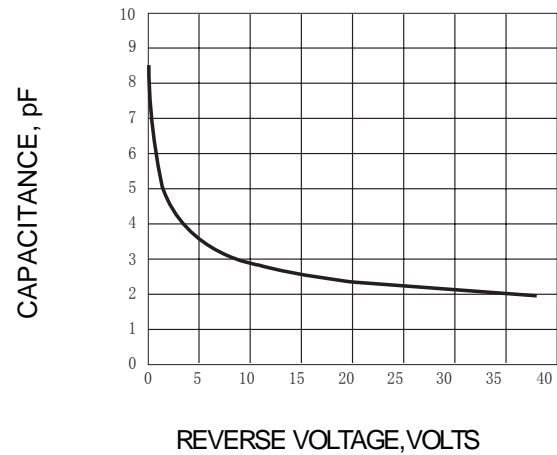


FIG.3 – TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS

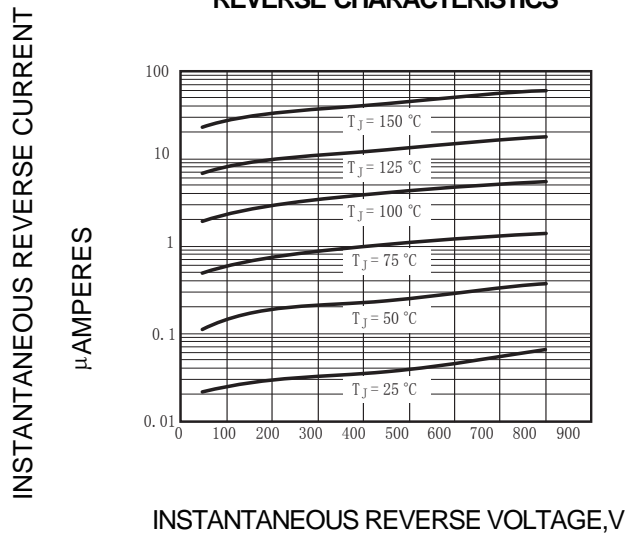
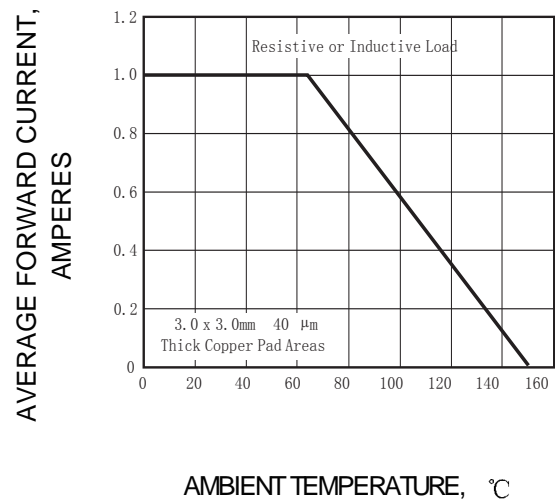


FIG.4 – FORWARD DERATING CURVE



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