

GENERAL PURPOSE PL

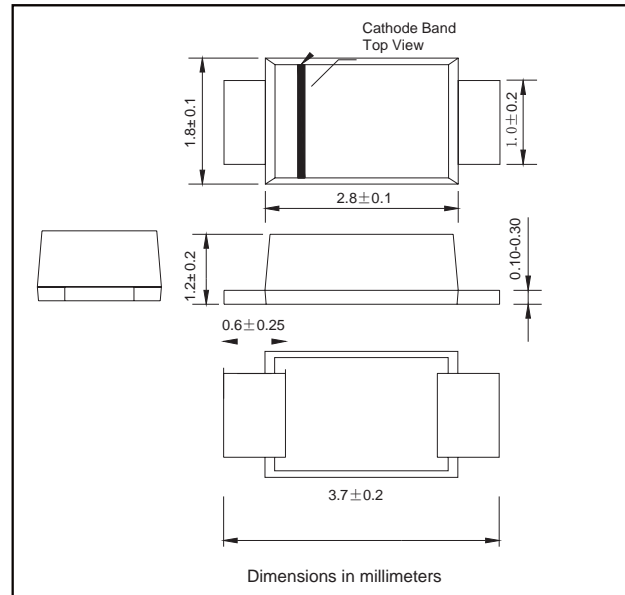
VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 1.0 A

FEATURES

- For surface mounted application
- Glass passivated device
- Low forward voltage drop
- High current capability
- Easy pick and place
- Plastic material used carriers Underwriters Laboratory Classification 94V-O
- High temperature soldering guaranteed: 250 C/10 seconds

MECHANICAL DATA

- Case : JEDEC SOD-123FL molded plastic bodyover
- passivated chip
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

	Symbols	A1	A2	A3	A4	A5	A6	A7	Unis	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts	
Maximum average Forward Rectified Current 0.375"(9.5mm) lead length at TA=75°C	I(AV)	1.0							Amp	
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method) TA=75°C	IFSM	30.0							Amps	
Maximum Instantaneous Forward Voltage at 1.0 A	VF	1.0							Volts	
Maximum Reverse current at rated DC Blocking Voltage	IR	T _a = 25 °C	5.0							μA
		T _a = 100 °C	50.0							
Typical Thermal resistance (Note 2)	R _θ JA	65.0							°C/W	
Typical Junction Capacitance (Note 1)	CJ	10.0							pF	
Maximum DC Blocking Voltage temperature	TA	+150							°C	
Operating and Storage temperature Range	TJ	-65 to +150							°C	
	TSTG									

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

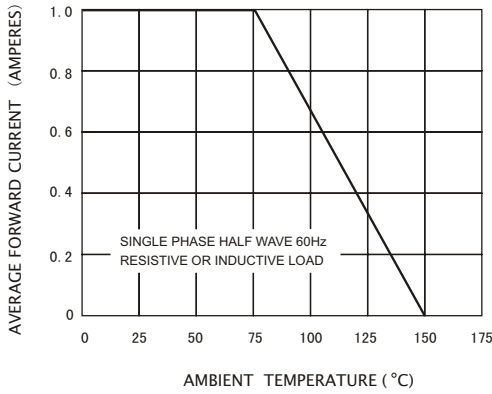


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

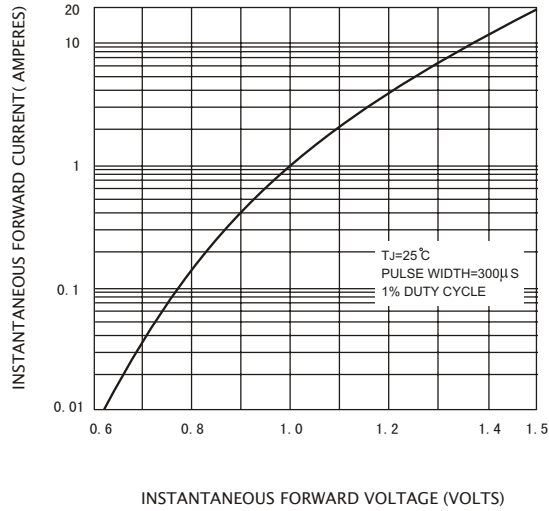


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

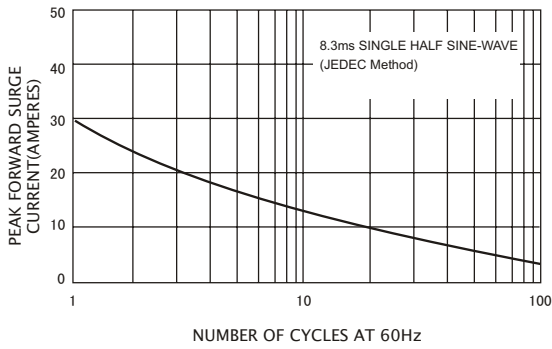


FIG.4-TYPICAL REVERSE CHARACTERISTICS

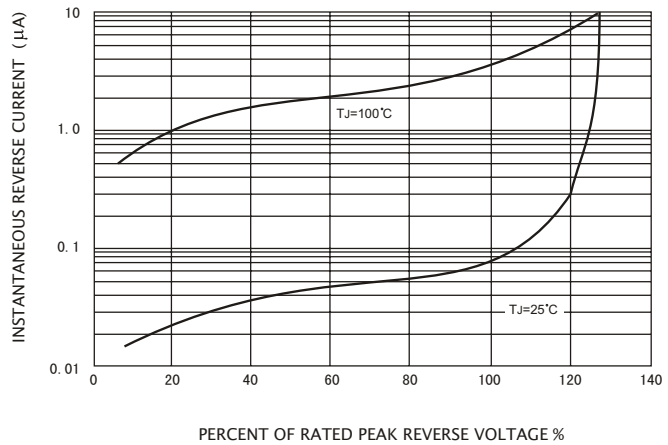


FIG.5-TYPICAL JUNCTION CAPACITANCE

