

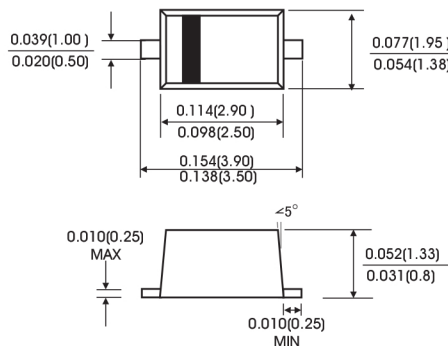
## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passived junction
- Low forward voltage drop
- High current capability, High reliability
- Low power loss, high efficiency
- High surge current capability
- High speed switching, Low leakage
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

## MECHANICAL DATA

- Case: SOD-123FL molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.01 gram

## SOD-123FL



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

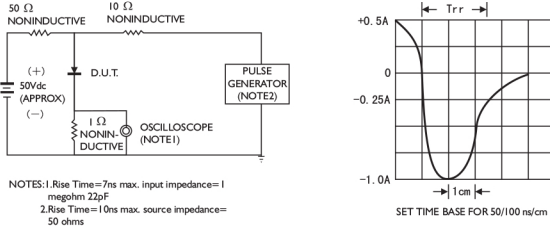
(Rating at 25 °C ambient temperature unless otherwise specified. Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load, derate current by 20%.)

		Symbols	U1A	U1B	U1D	U1F	U1G	U1J	U1K	U1M	Units
Maximum Recurrent Peak Reverse Voltage		$V_{RRM}$	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage		$V_{RMS}$	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage		$V_{DC}$	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm)lead length (@ at $T_A=55^{\circ}C$ )		$I_{(AV)}$	1.0								Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		$I_{FSM}$	30.0								Amps
Maximum Instantaneous Forward Voltage at 1.0 A		$V_F$	1.0			1.25		1.7			Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^{\circ}C$	$I_R$	5.0								$\mu A$
	$T_A=125^{\circ}C$		100								
Typical Thermal resistance		$R_{\theta JA}$	75								$^{\circ}C/W$
		$R_{\theta JL}$	27								
Maximum reverse recovery time(Note 1)		$T_{rr}$	50					75			ns
Typical junction capacitance(Note2)		$C_J$	15								PF
Operating junction and storage temperature range		$T_J$ $T_{STG}$	-65 to +150								$^{\circ}C$

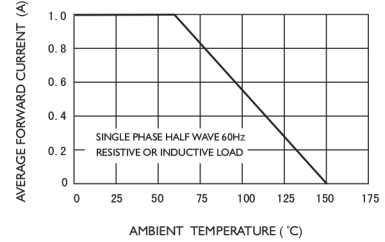
Note: 1. Test conditions:  $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$ .

2.Measured at 1MHZ and applied reverse voltage of 4.0 Volts.

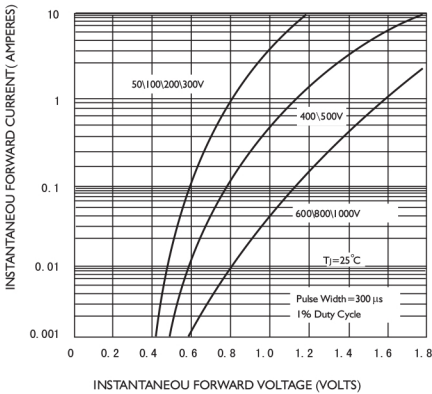
**FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



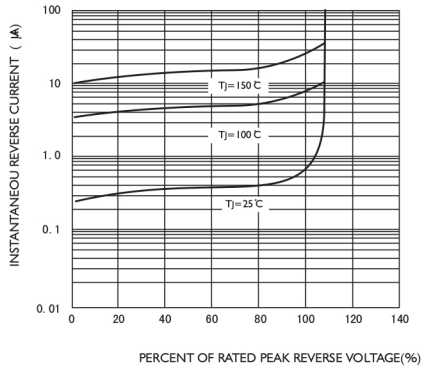
**FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE**



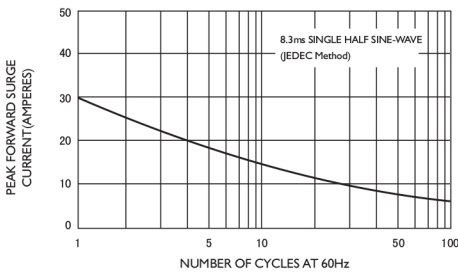
**FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



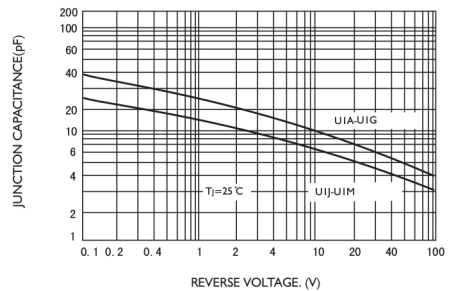
**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.6-TYPICAL JUNCTION CAPACITANCE**



单击下面可查看定价，库存，交付和生命周期等信息

[>>RCD\(达标电子\)](#)