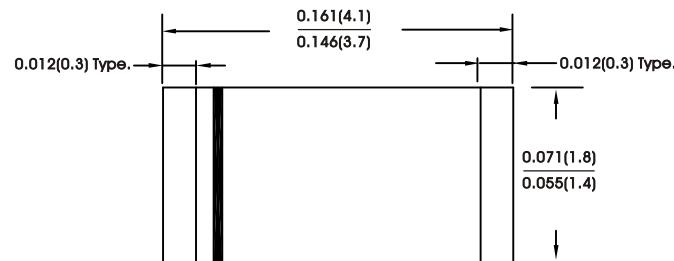
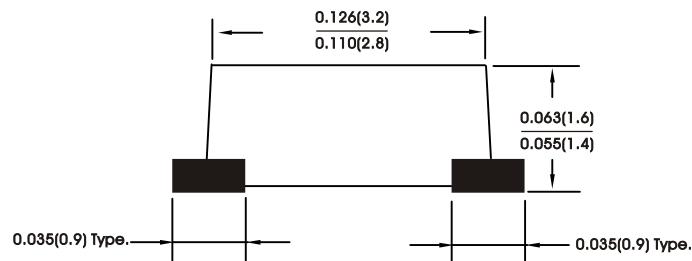


MINI/SOD-123**FEATURES:**

- Plastic package Underwriters Laboratory Flammability Classification 94V-0 Utilizing flame retardant epoxy molding compound
- Low leakage current
- For surface mounted applications
- Low VF Chlp

**MECHANICAL DATA**

Case : JEDEC SOD-123 / MINI SMA molded plastic
Terminals : Solder plated, solderable per MIL-STD-750
Method 2026
Polarity : As marked
Mounting Position : Any
Weight : 0.04 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

Characteristic	Symbol	SL12-M	SL13-M	SL14-M	Units
	Marking	L2	L3	L4	
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	Volts
Maximum average forward rectified current (See fig.1)	$I_{(AV)}$		10		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I_{FSM}		30		Amps
Maximum instantaneous forward voltage (NOTE 1)	$I_F = 1A$	V_F	0.38	0.40	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Per leg)(NOTE 2)	$T_A = 25^\circ C$ $T_A = 100^\circ C$	I_R		0.5 10	mA
Typical junction capacitance	C_J		130		pF
Typical thermal resistance(Per leg)	R_{th-JA}		42		°C/W
Operating temperature range	T_J		-65 to +125		°C
Storage temperature range	T_{Stg}		-55 to +150		°C

NOTES:

- (1) Pulse test : 300 us pulse width, 1% duty cycle
- (2) Measured 1MHZ and applied reverse voltage of 4.0v DC

RATINGS AND CHARACTERISTIC CURVES SL12-M THRU SL14-M

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

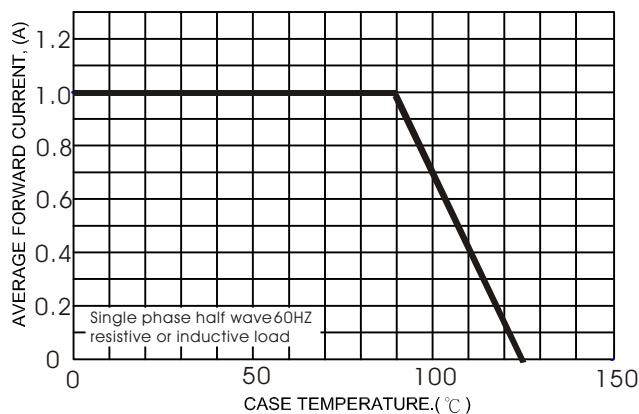


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

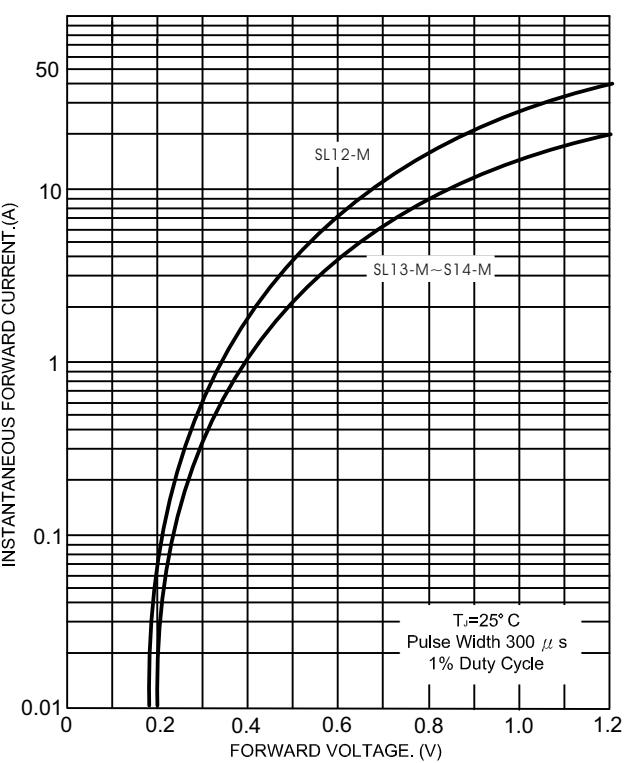


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

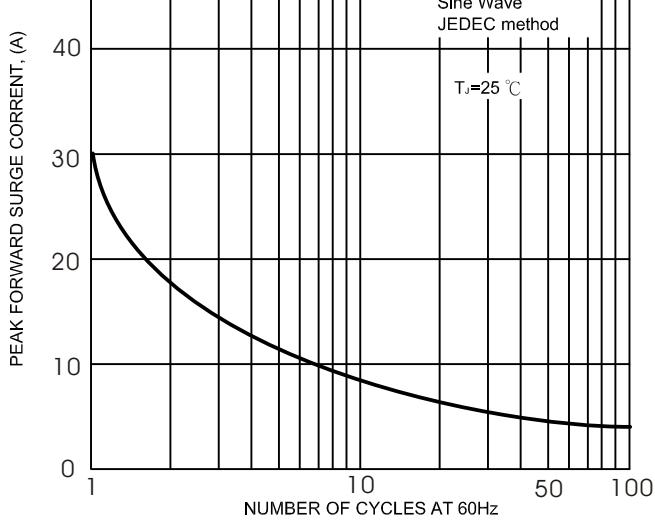


FIG.5- TYPICAL REVERSE CHARACTERISTICS

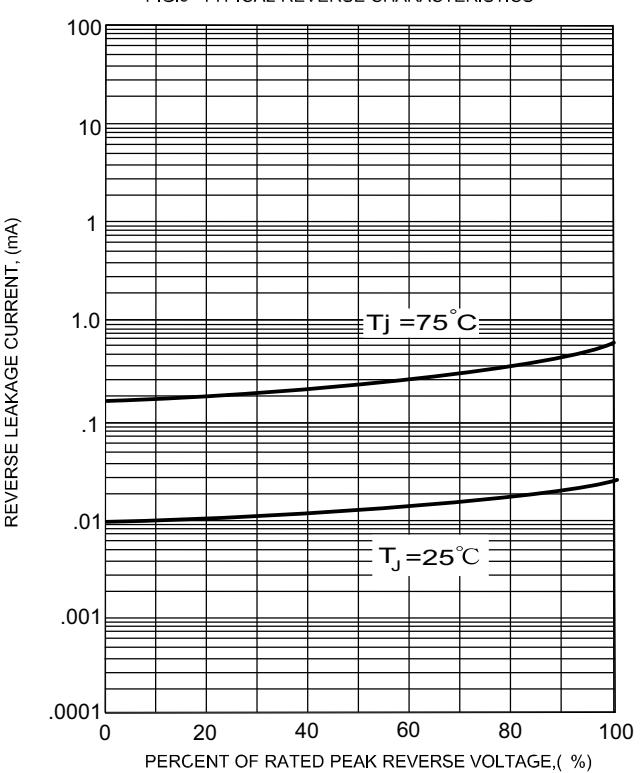


FIG.4- TYPICAL JUNCTION CAPACITANCE

