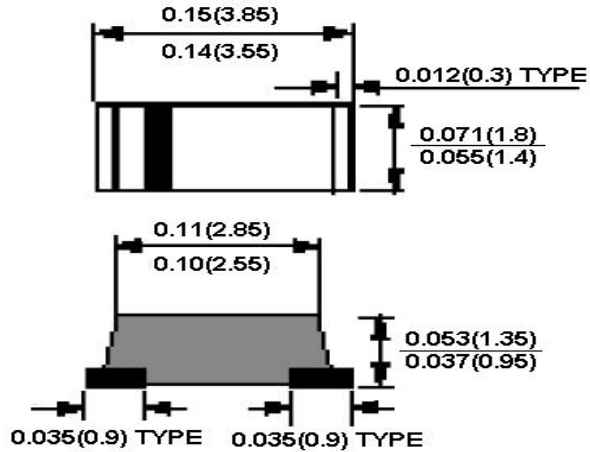
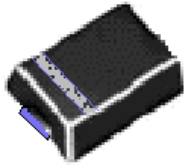


**Mechanical Dimensions**

**GSIB~GSIM**

**Description**



SOD-123

Dimensions in Inch(mm)

**Features**

- Lead free product
- Leadless chip form, no lead Damage
- Lead free Solder joint external
- Low profile package
- For surface mounted application
- Built-in strain relief
- Low power loss, high efficiency
- High current capability
- High surge capacity

**Mechanical Data**

- Case Packed with EPOXY
- Mounting: Position Any
- Terminals: Pure Tin Plated
- Solderable per MIL-STD-202E, Method 208C
- Plastic package has Underwriters Lab.
- Flammability Classification 94V-0
- Polarity: Laser Marking A,B,G,J,K,M
- Weight: 0.064g

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25C ambient temperature unless otherwise specified	SYMBOLS	GSIB~1M						UNITS
		A	B	G	J	K	M	
Maximum repetitive peak reverse voltage	V <sub>rrm</sub>	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>rms</sub>	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>dc</sub>	100	200	400	600	800	1000	V
Maximum average forward rectified current	I <sub>av</sub>	1						A
Peak forward surge current 8.3ms single half-wave superimposed on rated load(JEDEC Method)	I <sub>FSM</sub>	30						A
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	1.1						V
Maximum DC reverse current Ta=25C at rated DC blocking voltage Ta=125C Ta=150C	I <sub>R</sub>	1.0 30 50						uA
Maximum reverse recovery time(note1)	t <sub>rr</sub>	3000						nS
Typical junction capacitance(note2)	C <sub>j</sub>	12						pF
Operating junction and storage temperature range	T <sub>j</sub> ,T <sub>stg</sub>	-65 to +175						C

Note 1: Reverse recovery time test condition: IF 0.5A, IR 1.0A, Irr 0.25A

Note 2: Measured at 1.0MHz and applied reverse voltage of 4.0 voltage

Note 3: Preliminary Draft

# 1.0Amp Glass Passivated Surface Mount STD Diode

FIG. 1 - FORWARD CURRENT DERATING CURVE

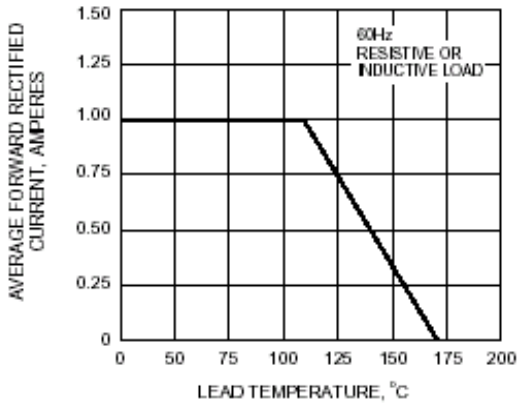


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

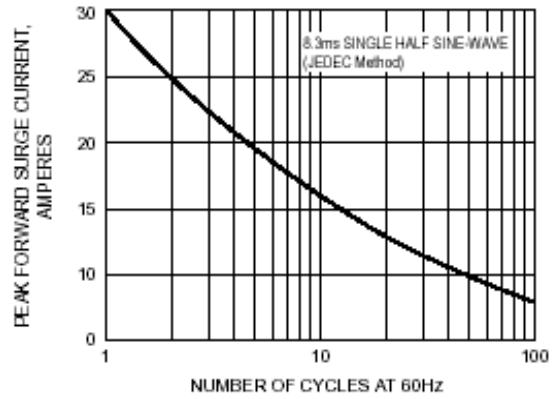


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

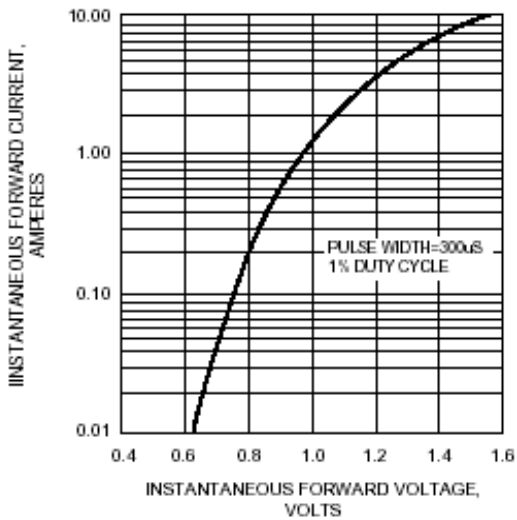


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

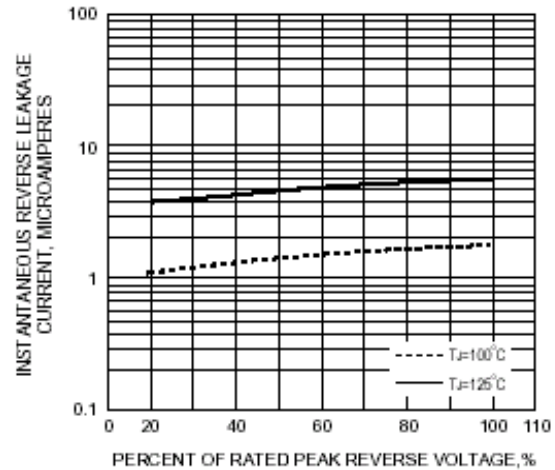


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

