

FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

Case: SOD-123, Plastic

Terminals: Solderable per MIL-STD-202G, Method 208

Polarity: See Diagram Below Approx.

Weight: 0.008 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.

parameter	Symbol	TPMEG4005EGWX	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Current at $T_a=75^{\circ}C$	I_{AV}	0.5	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	5.5	A
Maximum Instantaneous Forward Voltage	V_F	0.51@0.5A 0.62@1.0A	V
Maximum Reverse Current	I_R	10@ $V_r=20V$	uA
Typical junction capacitance at $V_R=0V$ DC	C_J	170	pF
Maximum Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	150 206	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_S T_G	-55 TO +125	$^{\circ}C$

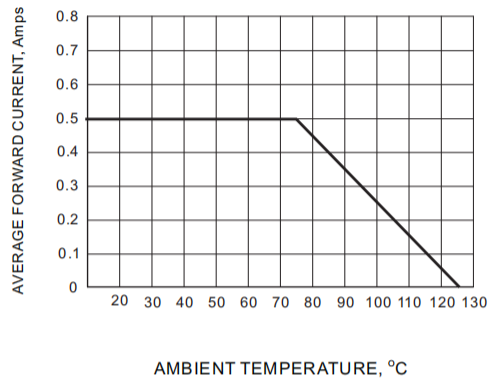


Fig.1 FORWARD CURRENT DERATING

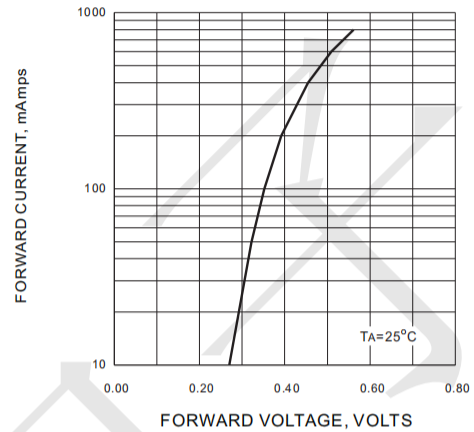


Fig.2 TYPICAL FORWARD VOLTAGE

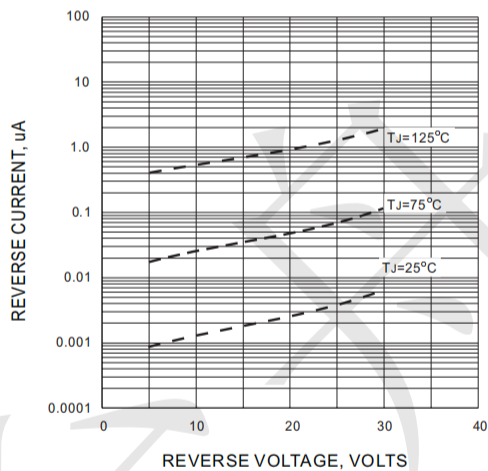


Fig.3 TYPICAL REVERSE CURRENT

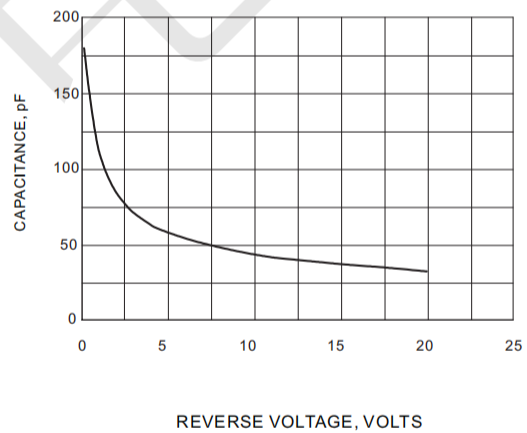
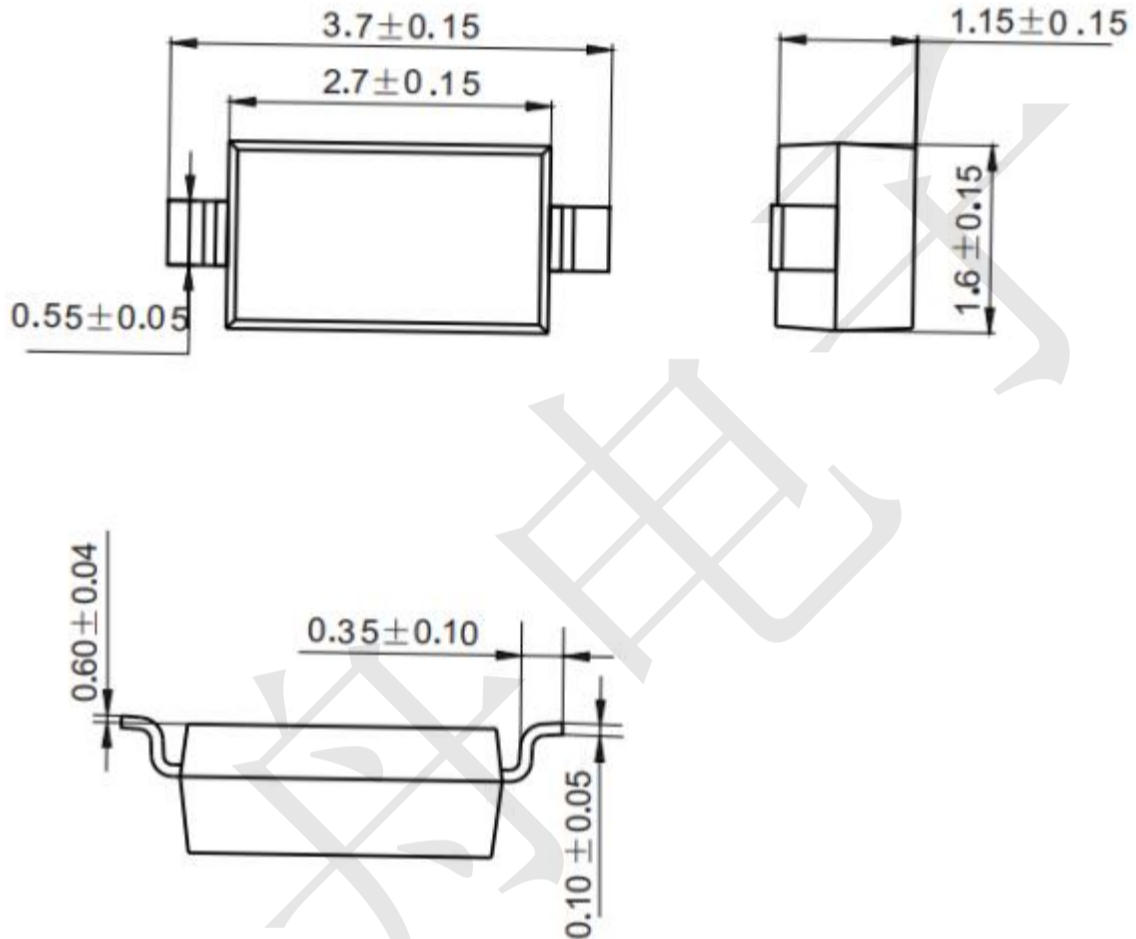


Fig.4 TYPICAL JUNCTION CAPACITANCE

Package information (Unit: mm)

SOD-123



Mounting Pad Layout (Unit: mm)

