

A1 THRU A7

PLASTIC-ENCAPSULATE GENERAL-PURPOSE RECTIFIERS

VOLTAGE

50 THRU 1000 Volts

CURRENT

1.0 Amper

SOD-123FL

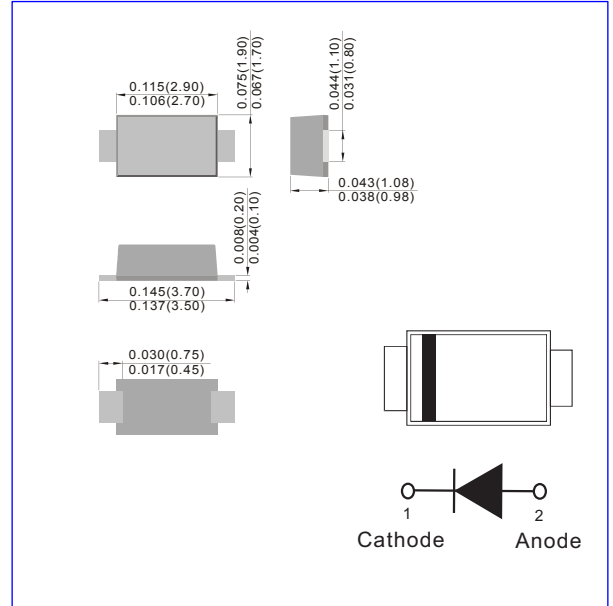
Unit:(mm)

FEATURES

Low reverse leakage
High Forward surge capability
High reliability
High temperature soldering guaranteed: 260 °C
Lead and body according with Rohs standard

MECHANICAL DATA

SOD-123FL small outline plastic package
Polarity: Color band denotes cathode end
Epoxy UL: 94V-0
Mounting Position: Any



Maximum Ratings & Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	A1	A2	A3	A4	A5	A6	A7	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)	1.0							A
Non-repetitive Peak forward surge current 8.3 ms single half sine-wave	IFSM	50							A
Max. forward voltage @IF=1.2A TA = 25 °C	VF	1.0							V
Max. reverse current TA = 25 °C TA=125 °C	IR	5 100							uA
Typical thermal resistance (Note1)	RθJA	180							°C/W
Type junction capacitance VR=4.0V, f=1MHz	Cj	12							pF
Operation junction and Storage temperature range	Tj,TSTG	-55-+150							°C

Note:

1) Thermal resistance from junction to ambient, PCB mounted.

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RATING AND CHARACTERISTIC CURVES

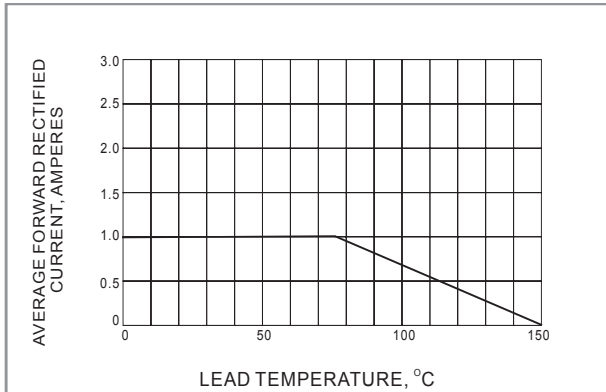


Fig. 1 FORWARD CURRENT DERATING CURVE

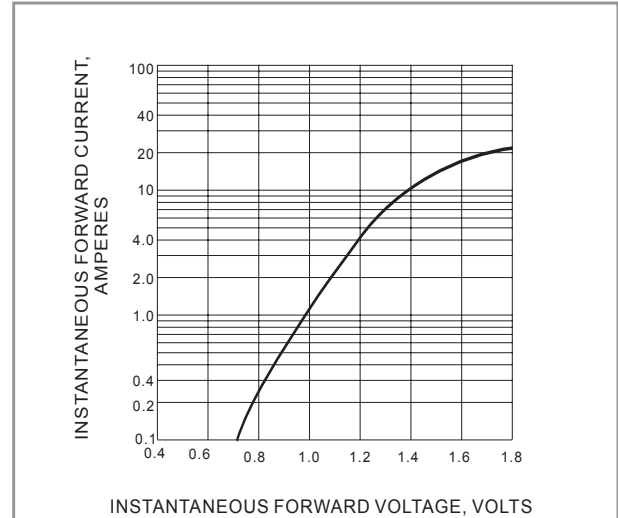


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

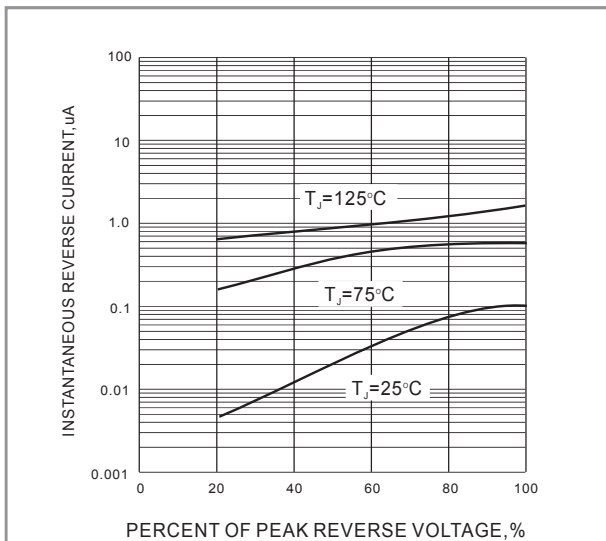


Fig. 3 TYPICAL REVERSE CHARACTERISTICS

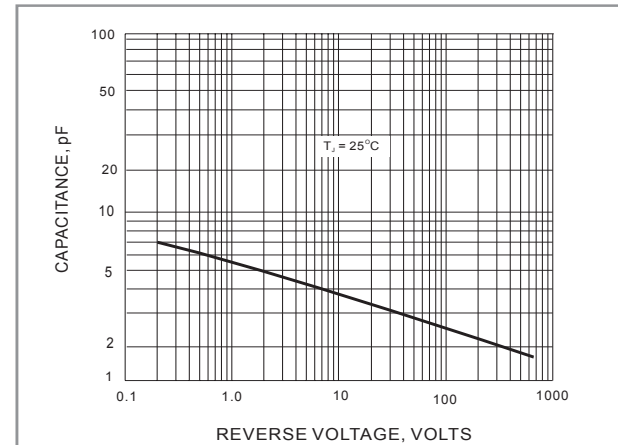


Fig. 4 TYPICAL JUNCTION CAPACITANCE

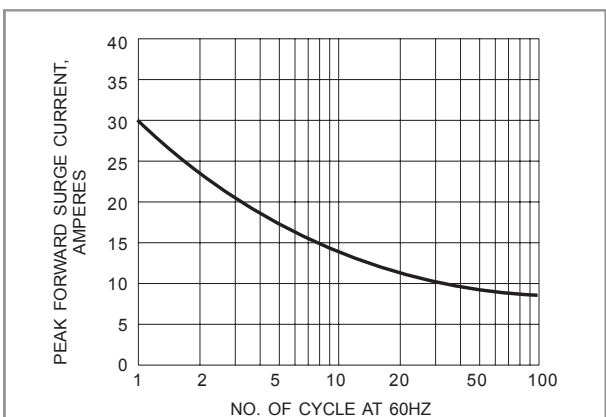


Fig. 5- MAXIMUM NON - REPETITIVE SURGE CURRENT

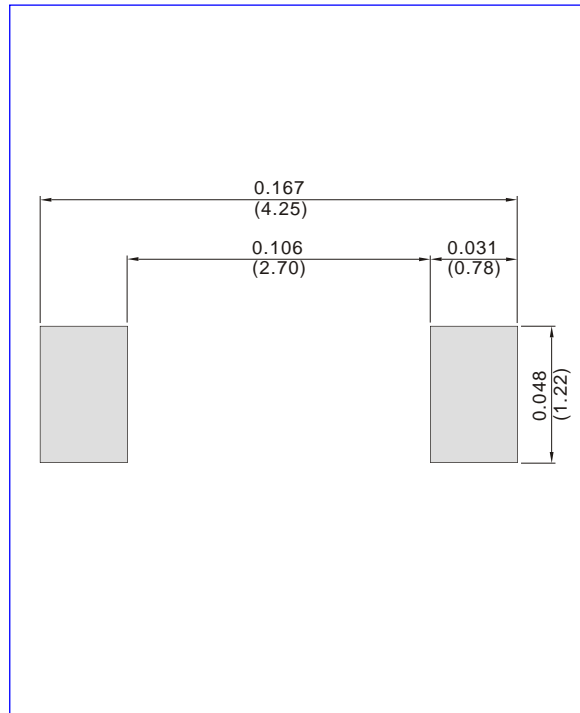
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MOUNTING PAD LAYOUT

SOD-123FL

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel