

FEATURES

- ◆ Ideal for surface mount applications
- ◆ Easy pick and place
- ◆ Built-in strain relief
- ◆ Low forward voltage drop



MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Epoxy: UL 94V-0 rate flame retardant
- ◆ Metallurgically bonded construction
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting position: Any

SOD-123FL

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	PMEG4030ER,115-JSM		UNITS
Maximum Recurrent Peak Reverse Voltage	40		V
Maximum RMS Voltage	28		V
Maximum DC Blocking Voltage	40		V
Maximum Average Forward Rectified Current At $T_{L}=100^{\circ}\text{C}$	3.0		A
Peak Forward Surge Current, 8.3ms single half sine-wave super imposed on rated load (JEDEC method)	80		A
Maximum Instantaneous Forward Voltage at 3.0A	0.55		V
Maximum DC Reverse Current $T_{a}=25^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_{a}=100^{\circ}\text{C}$	0.1 5		mA mA
Typical Junction Capacitance (Note1)	300		pF
Typical Thermal Resistance R_{JL} (Note2)	10		°C/W
Operating Temperature Range T_J	-65+150		°C
Storage Temperature Range T_{STG}	-65+150		°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

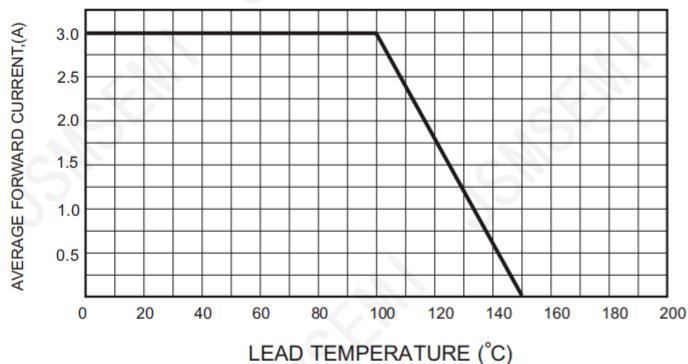


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

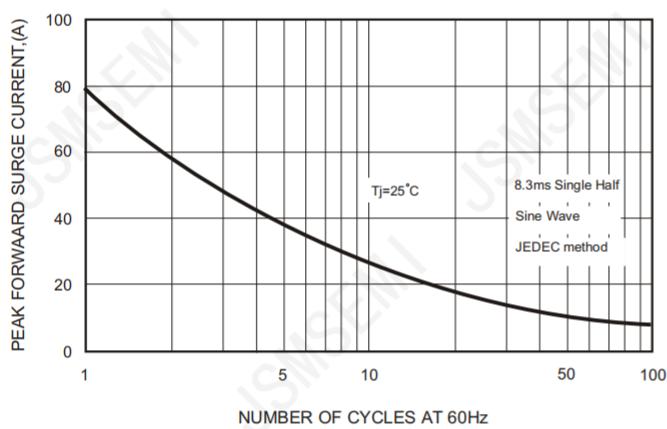


FIG.4-TYPICAL JUNCTION CAPACITANCE

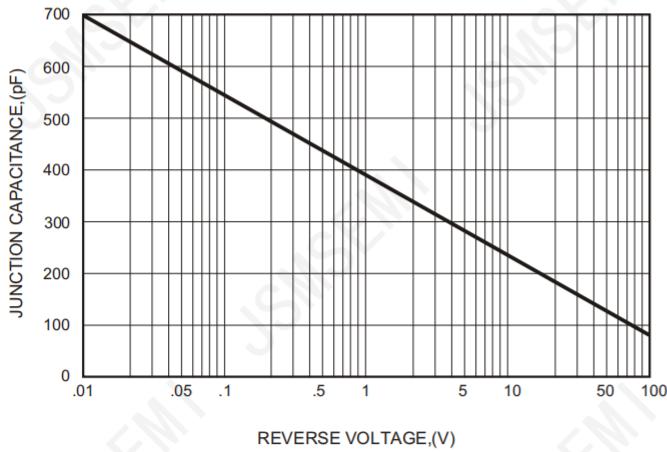


FIG.2-TYPICAL FORWARD CHARACTERISTICS

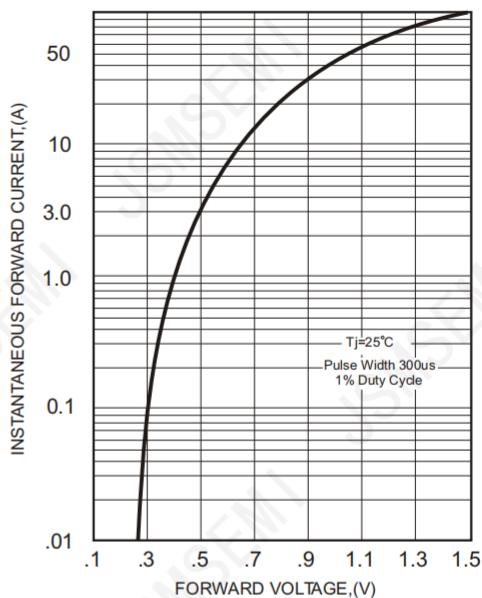
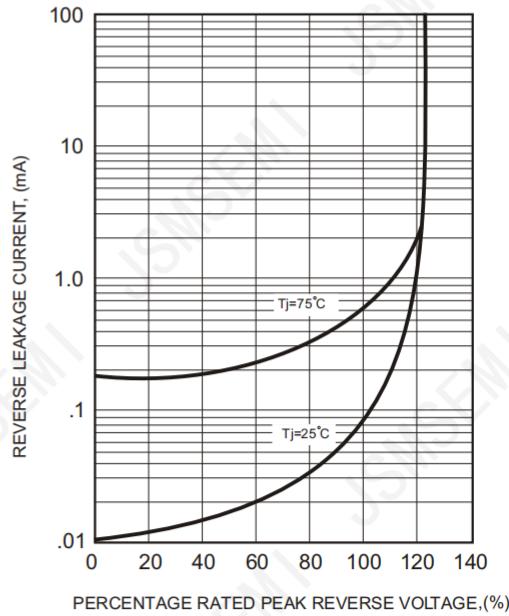
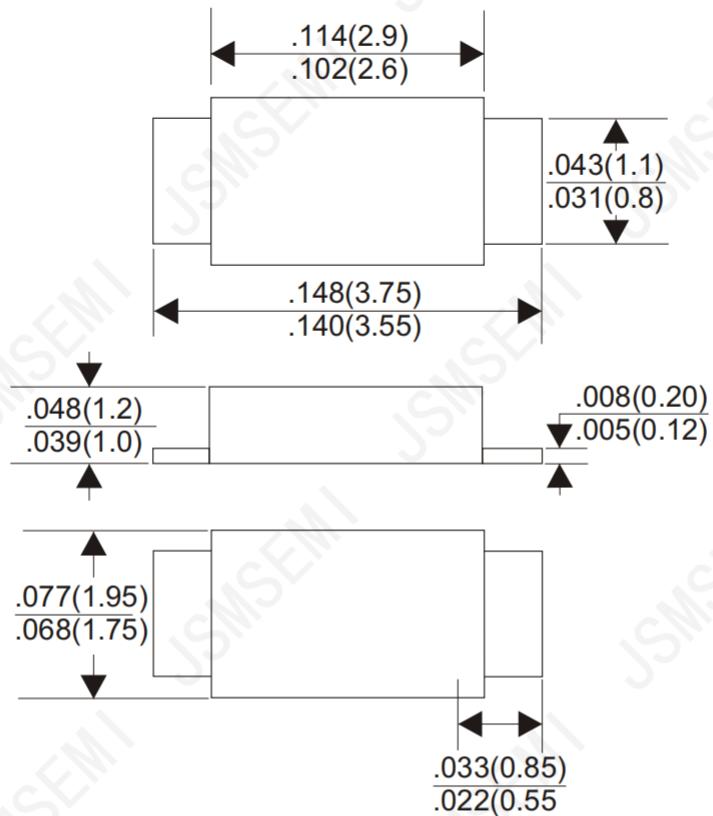


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



SOD-123FL



Dimensions in inches and (millimeters)

Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2021

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