



Features

- Average Forward Current: $I_{F(AV)}=2A$
- Polarity: Color band denotes cathode



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PMEG40T20ERX	SOD-123FL	K24	3000

SOD-123FL



Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Type Number	Limit	Units
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	28	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current See Fig. 1	2.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50	A
Maximum Instantaneous Forward Voltage at 2.0A	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 0.1 Ta=100°C 5	mA mA
Typical Junction Capacitance (Note1)	170	pF
Typical Thermal Resistance R _{JA} (Note 2)	80	°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 Ambient.



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

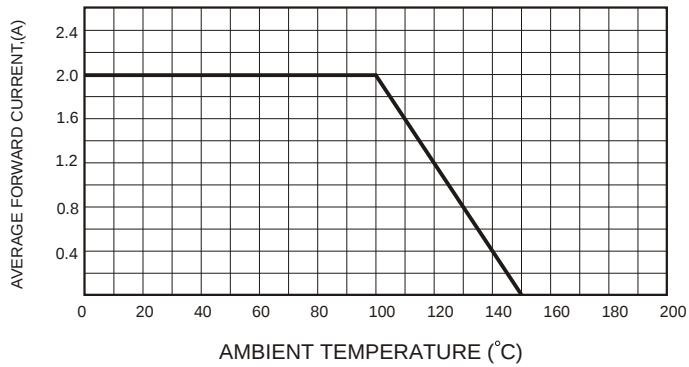


FIG.2-TYPICAL FORWARD
CHARACTERISTICS

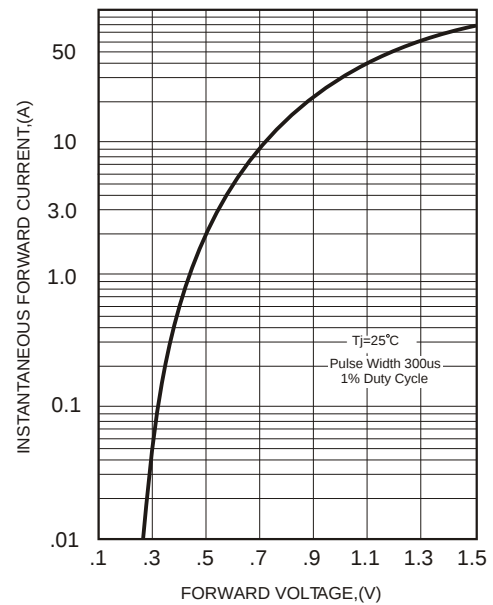


FIG.3-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

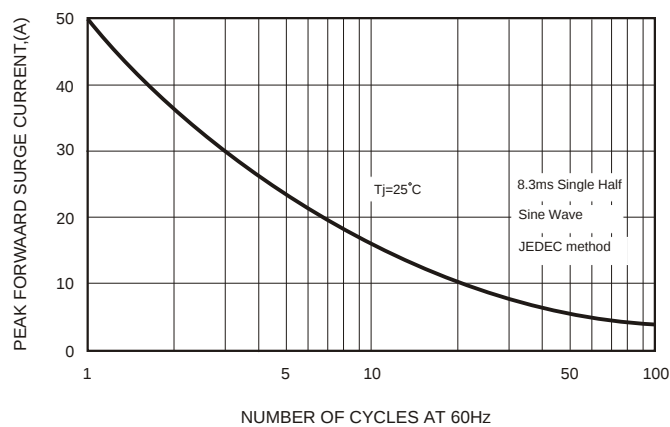


FIG.4-TYPICAL JUNCTION CAPACITANCE

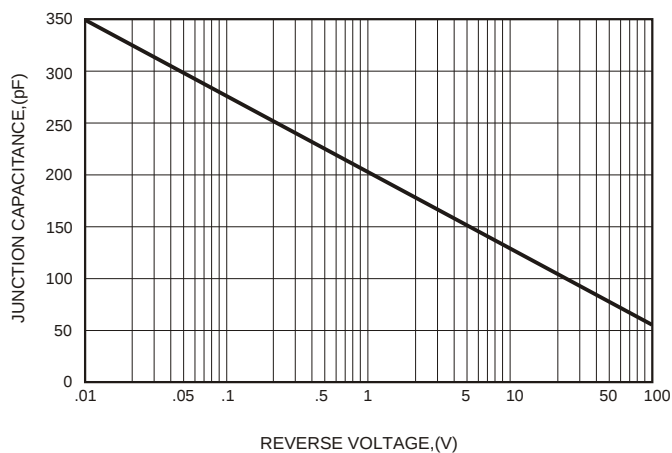
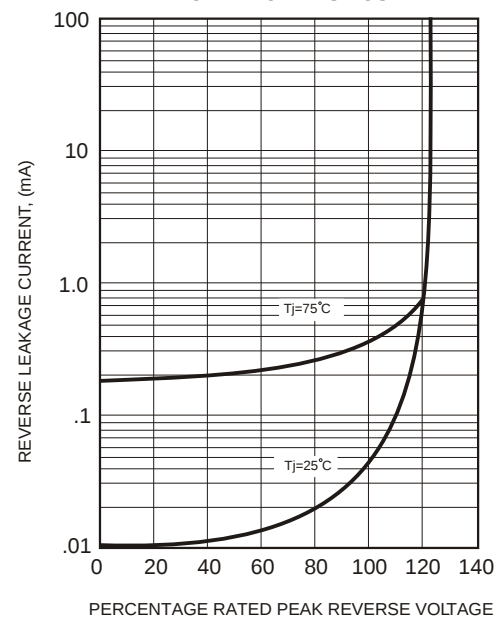
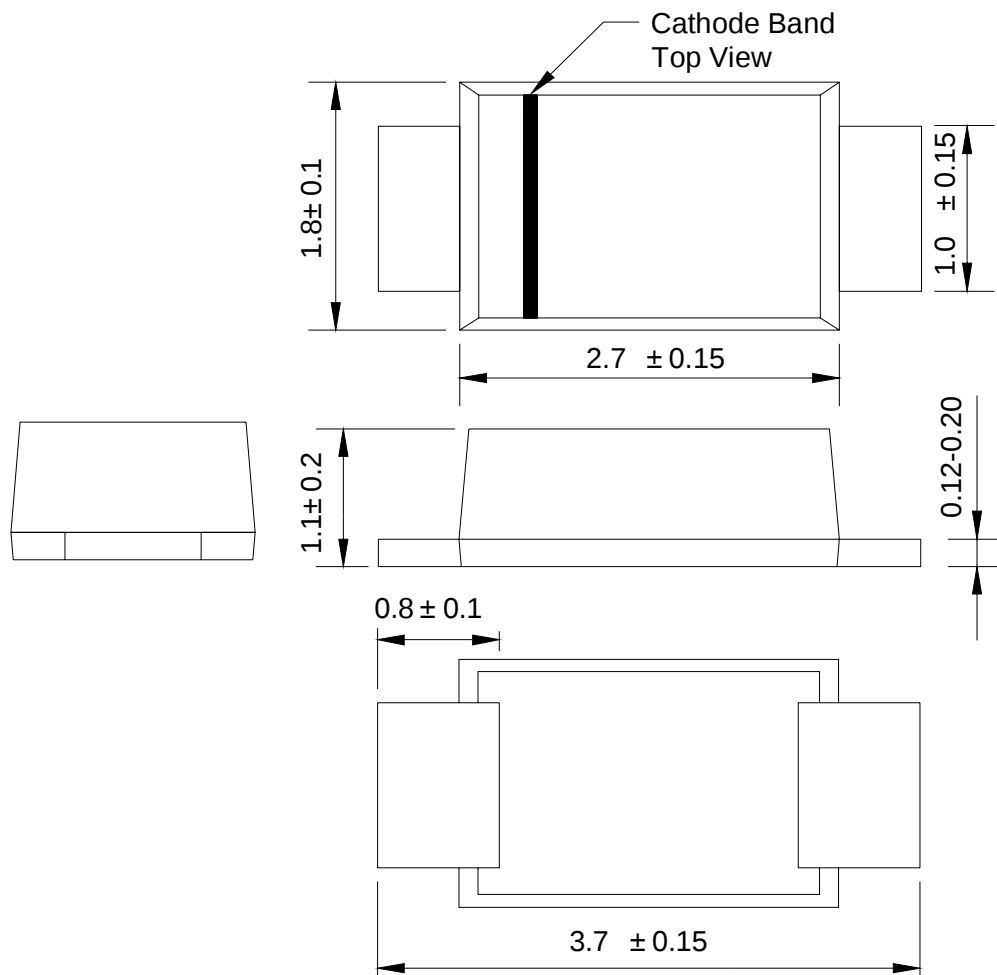


FIG.5 - TYPICAL REVERSE
CHARACTERISTICS





Package Outline Dimensions
SOD-123FL





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