PMEG100T20ELR-QX
SCHOTTKY RECTIFIER DIODES

Features

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



SOD-123FL



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PMEG100T20ELR-QX	SOD-123FL	K210	3000

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	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	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	0.85	V
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage Ta=100°C	0.02 2	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

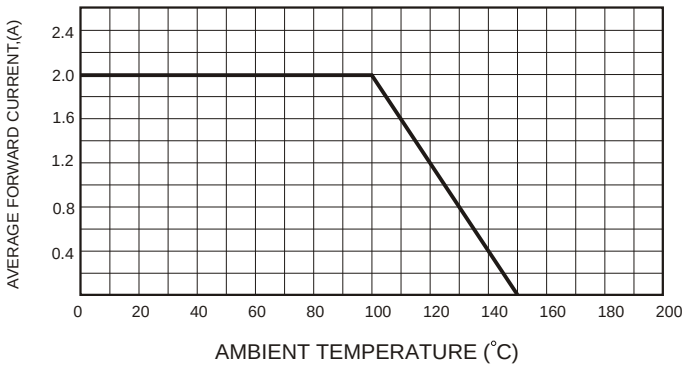


FIG.2-TYPICAL FORWARD CHARACTERISTICS

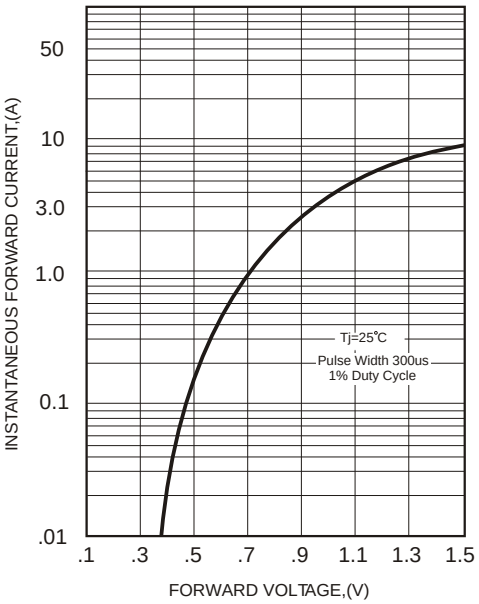


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

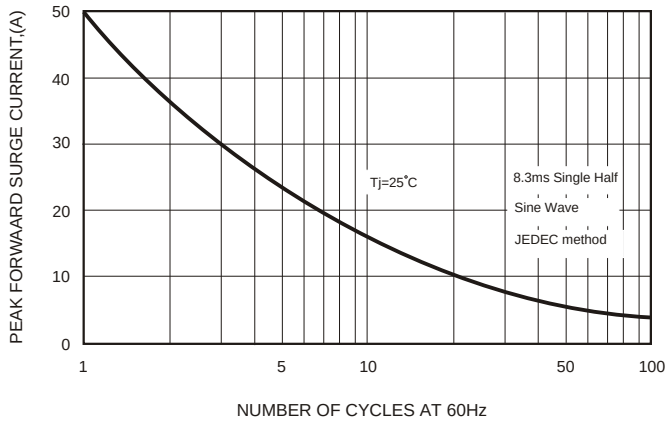


FIG.4-TYPICAL JUNCTION CAPACITANCE

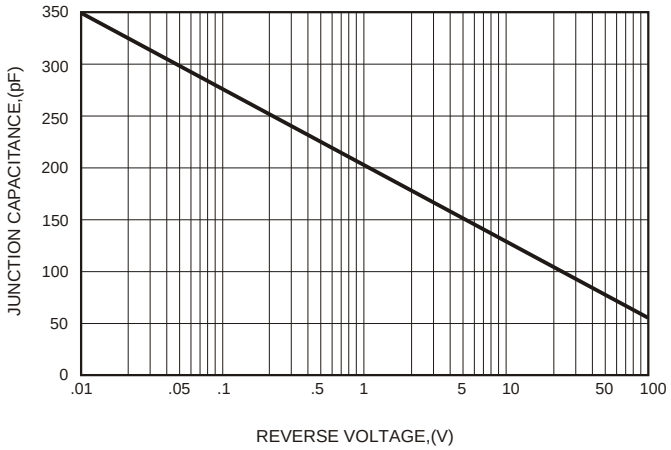
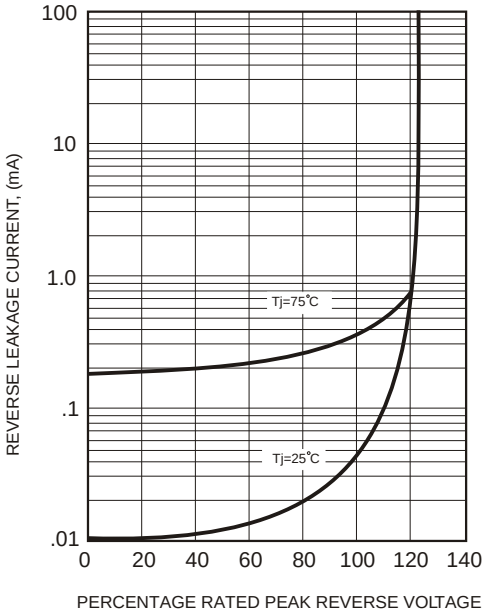
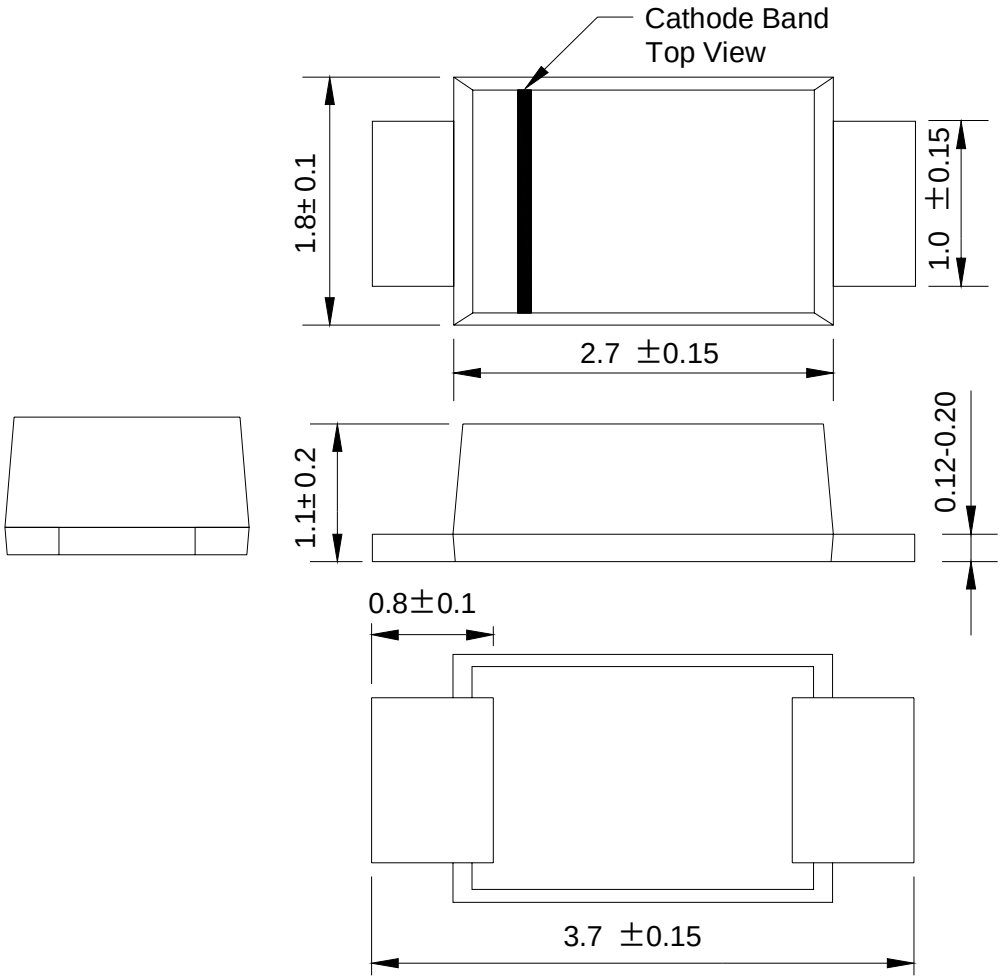


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SOD-123FL



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HXY MOSFET:

BV05C-H HAZ4007-01H HLY323BC1524L HRCLAMP3371ZCTFT PESDNC2XD5VBL TPSMB100CA-VR HSD15C.TCT PESDSC2FD5VU RLSD32A121V ESD5L5.0C-HXY HACPDQC5V0-HF HPTVSUC3D5VB HSEN2411D3 PESDNC2XD5VBF PJSD24CW_R1 HCEZ36V,L3F HESDSLC3V3D3B HSEN3611D3 LM393DR-HXY PJEC5V0M1FN2 60N06 AQ15C-01FTG PESDLC2FD3V3BH AZ4836-01L ESD5LM5.0C-HXY AZ4007-01H HESD36VD3B HSG3D15B3.3MA HSTS521050B331 TPSMB28A-VR