Features

- Average Forward Current:$I_{F(AV)}$=1A
- Polarity: Color band denotes cathode



SOD-123FL



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SKL12	SOD-123FL	K12	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	Unit
Maximum Recurrent Peak Reverse Voltage	20	V
Maximum RMS Voltage	14	V
Maximum DC Blocking Voltage	20	V
Maximum Average Forward Rectified Current See Fig. 1	1.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30	A
Maximum Instantaneous Forward Voltage at 1.0A	0.55	V
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage Ta=100°C	0.2 10	mA mA
Typical Junction Capacitance (Note1)	110	pF
Typical Thermal Resistance R JA (Note 2)	80	°C/W
Operating Temperature Range T_J	-65 —+125	°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

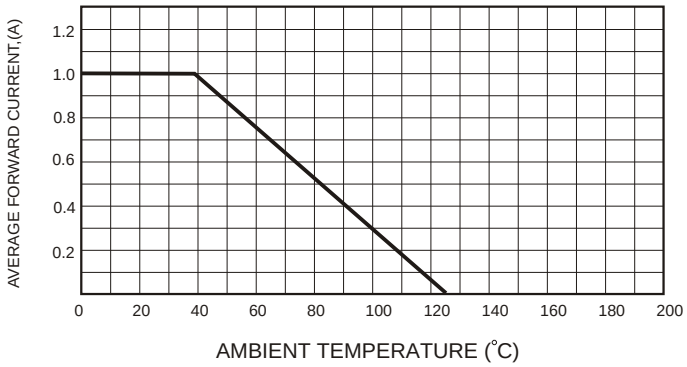


FIG.2-TYPICAL FORWARD CHARACTERISTICS

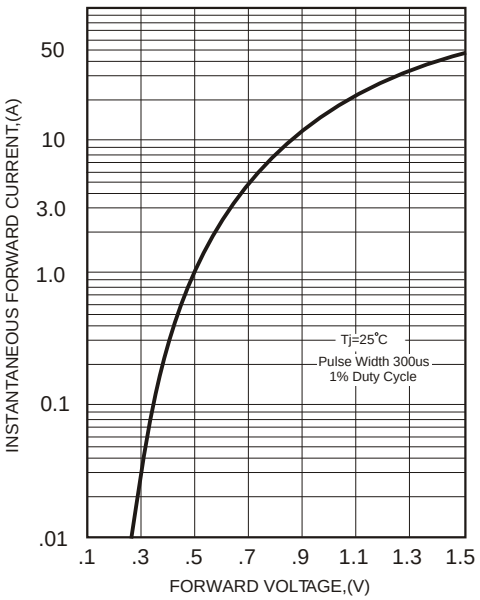


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

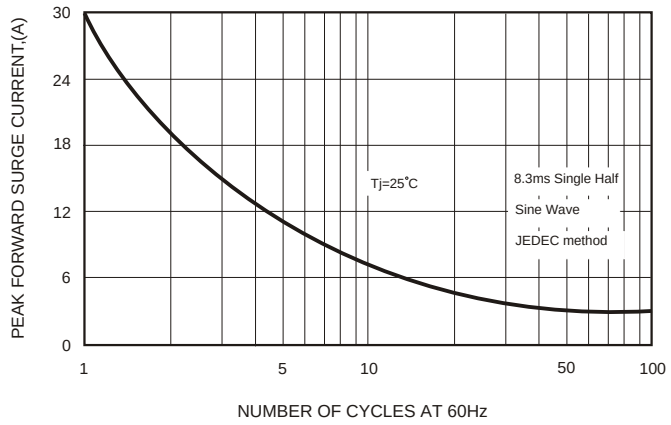


FIG.4-TYPICAL JUNCTION CAPACITANCE

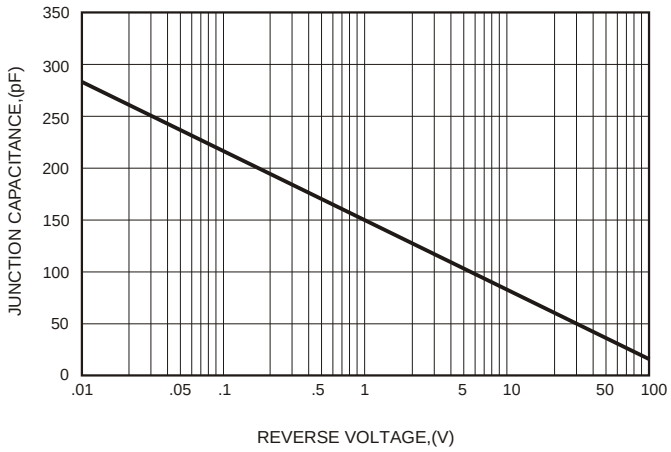
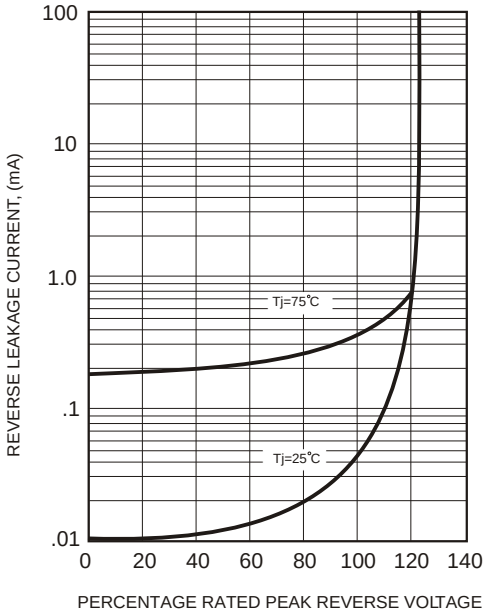
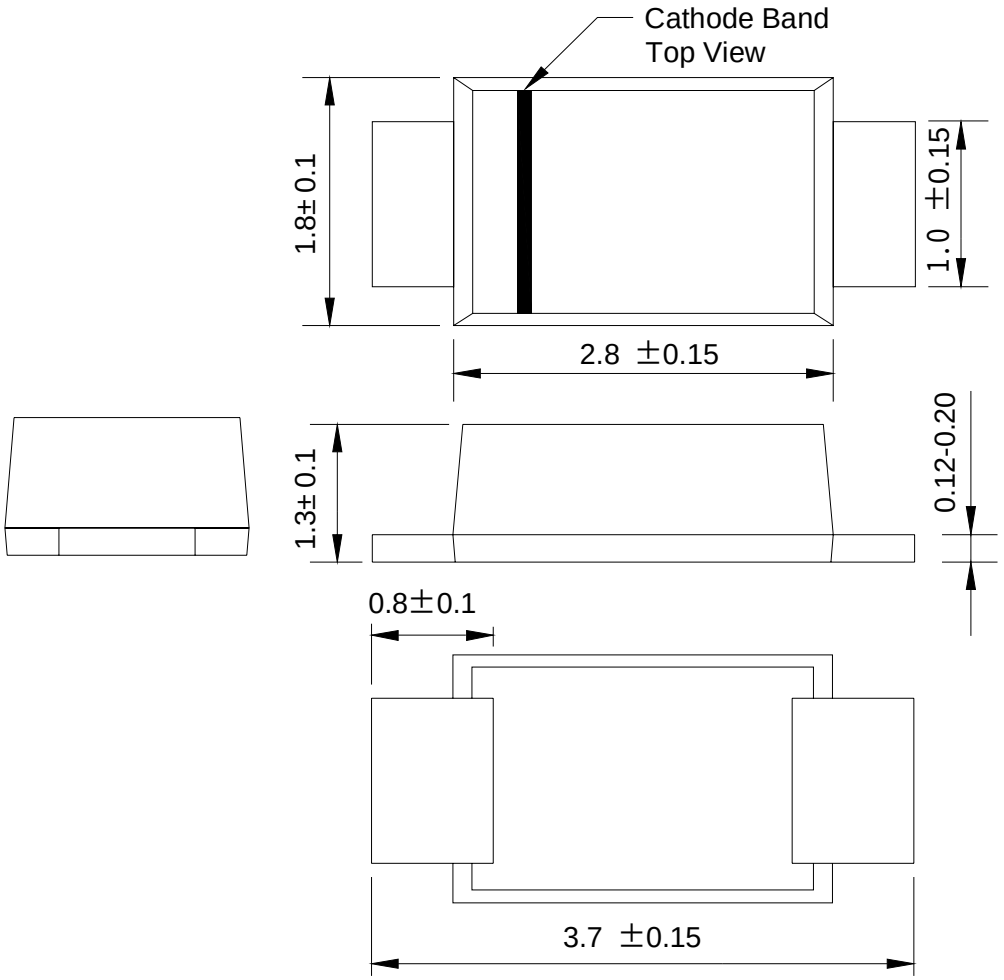


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



SOD-123FL Package Outline Dimensions



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HXY MOSFET:

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