



Features

- Average Forward Current: $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode



SOD-123FL

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
DSS34	SOD-123FL	K34	3000



Minximum Ratings($T_a=25^\circ\text{C}$ unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	DSK34	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, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	80	A
Maximum Instantaneous Forward Voltage at 3.0A	0.55	V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$	0.1	mA
at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$	5	mA
Typical Junction Capacitance (Note1)	300	pF
Typical Thermal Resistance R_{JL} (Note 2)	10	$^\circ\text{C/W}$
Operating Temperature Range T_J	-65 — +150	$^\circ\text{C}$
Storage Temperature Range T_{STG}	-65 — +150	$^\circ\text{C}$

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

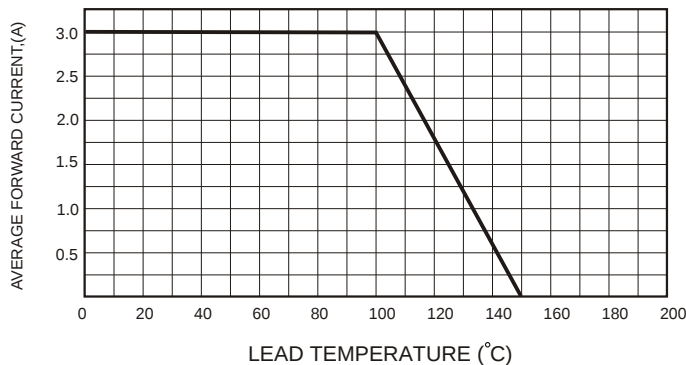


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

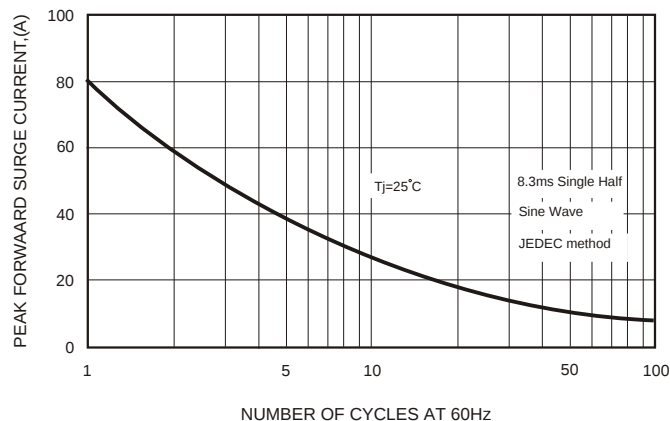


FIG.4-TYPICAL JUNCTION CAPACITANCE

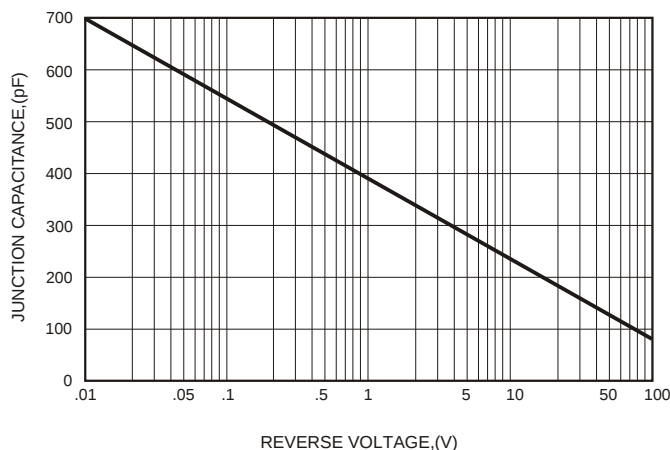


FIG.2-TYPICAL FORWARD

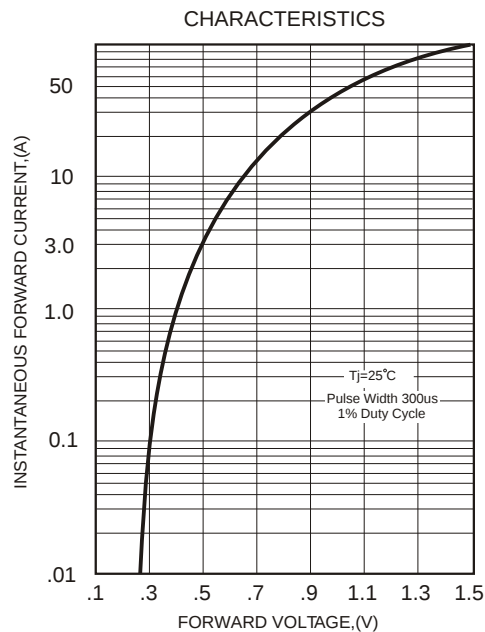
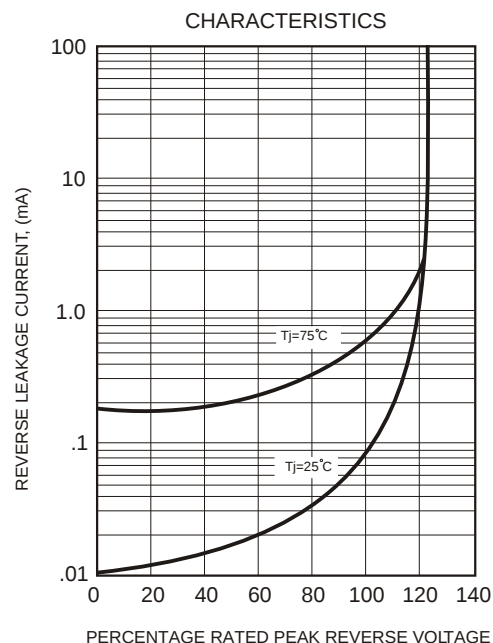
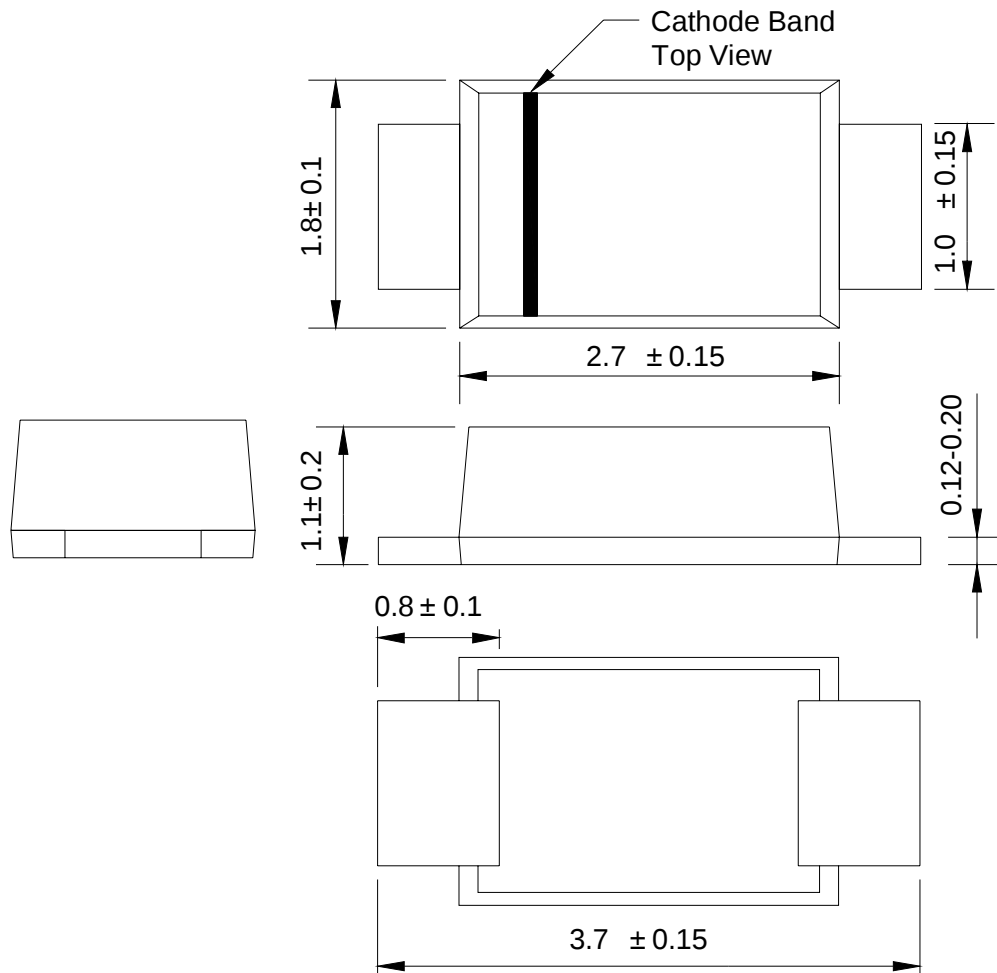


FIG.5 - TYPICAL REVERSE





Package Outline Dimensions
SOD-123FL





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