



FEATURES

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



SOD-123F

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
DSK34	SOD-123F	K3★	3000

★:From 2-10



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Rating 25°C ambient temperature unless otherwise specified.
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 $T_L=100^{\circ}C$	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 at Rated DC Blocking Voltage	0.1 5	mA mA
	$T_a=25^{\circ}C$ $T_a=100^{\circ}C$	
Typical Junction Capacitance (Note 1)	300	pF
Typical Thermal Resistance R _{JL} (Note 2)	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 Ambient.



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

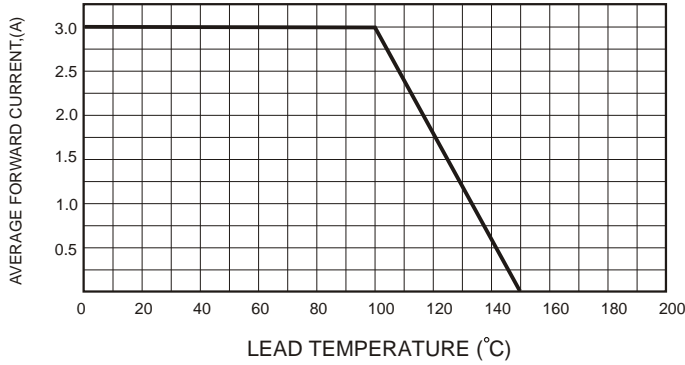


FIG.2-TYPICAL FORWARD CHARACTERISTICS

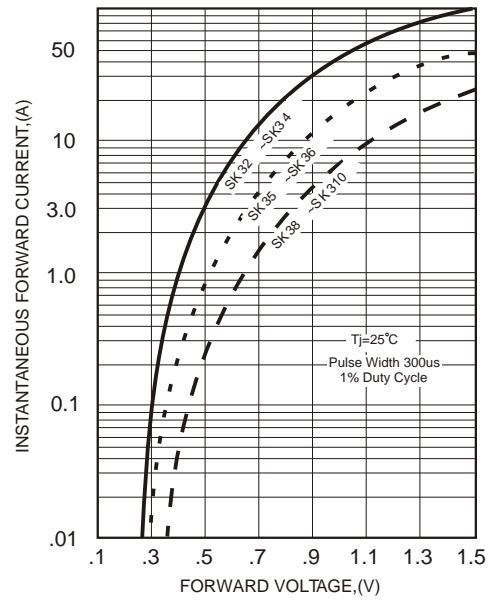


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

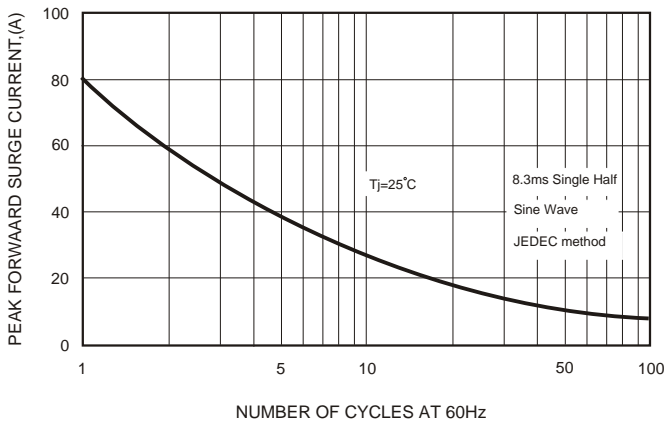


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

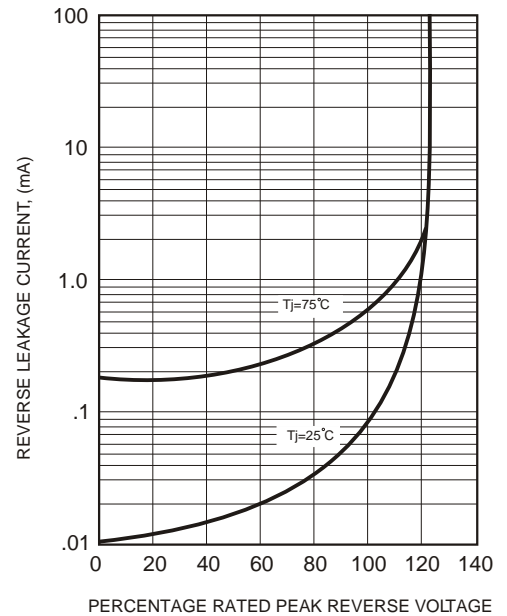
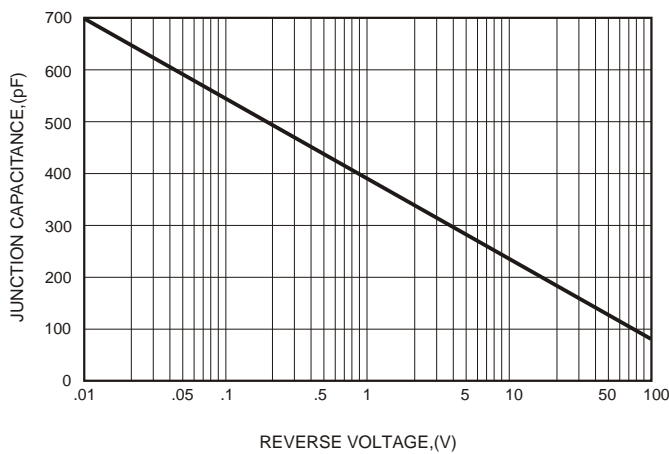
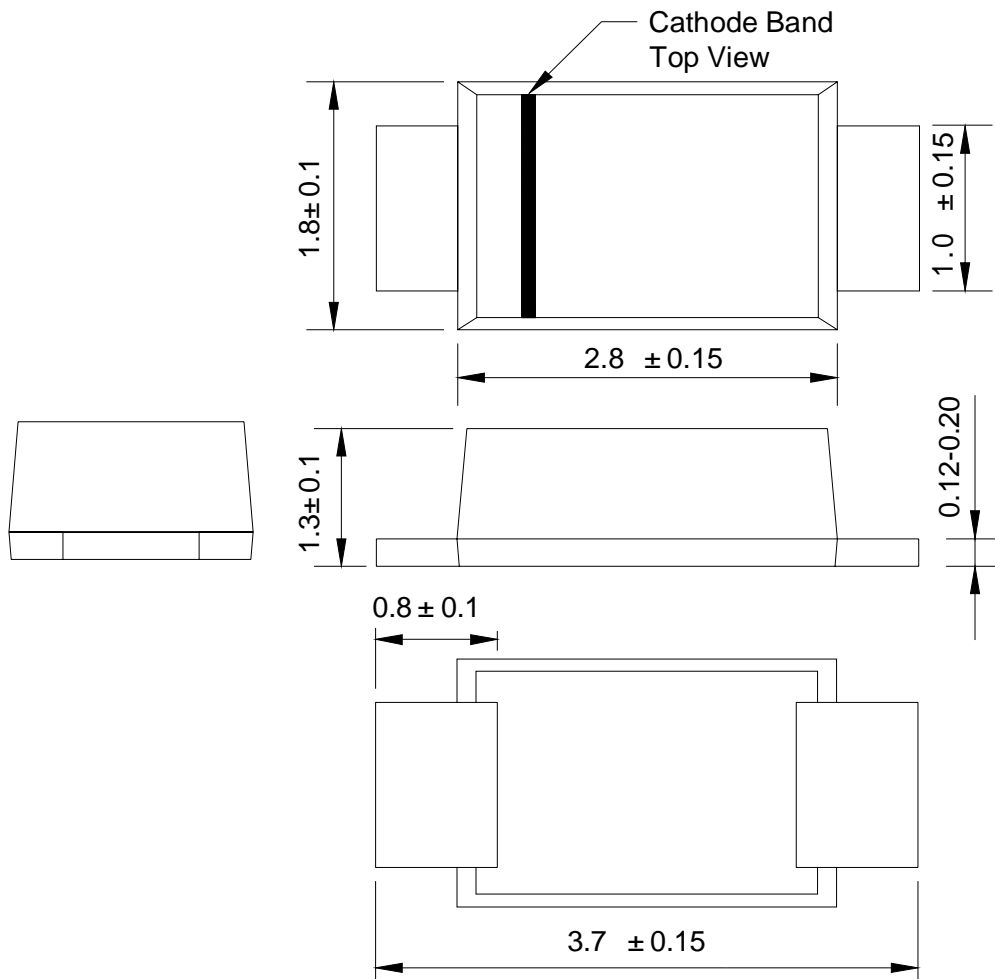


FIG.4-TYPICAL JUNCTION CAPACITANCE





SOD-123F Package Outline Dimensions





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