



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)
DSS12-DSS110	SOD-123FL	K1★	3000

★:From 2-10



Maxmim Ratings

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

TYPE NUMBER	DSS12	DSS13	DSS14	DSS15	DSS16	DSS18	DSS19	DSS110	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	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		0.70		0.85				V
Maximum DC Reverse Current $T_a=25^{\circ}C$	0.2								mA
at Rated DC Blocking Voltage $T_a=100^{\circ}C$	10								mA
Typical Junction Capacitance (Note1)	110								pF
Typical Thermal Resistance R _{JA} (Note 2)	80								°C/W
Operating Temperature Range T _J	-65 — +125				-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

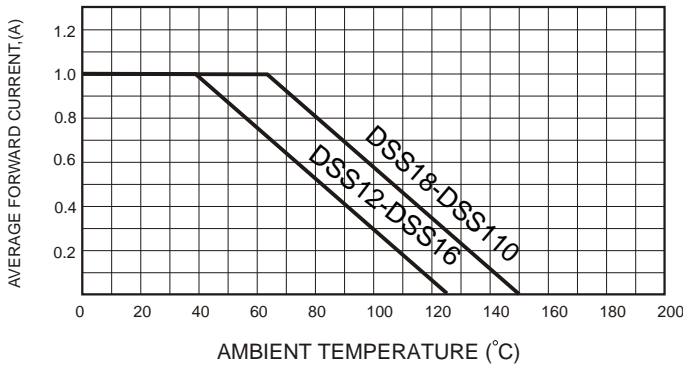


FIG.2-TYPICAL FORWARD CHARACTERISTICS

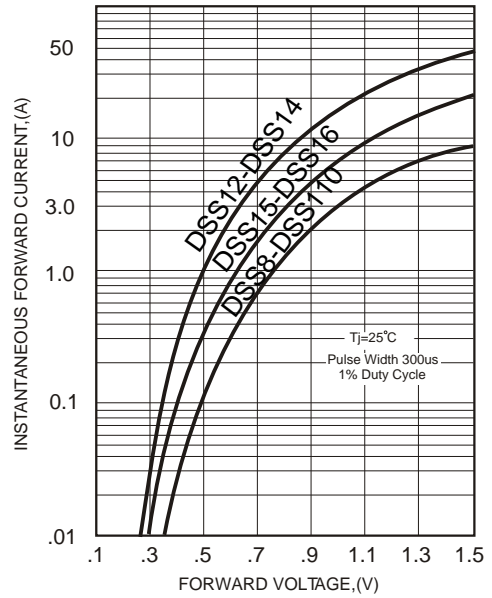


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

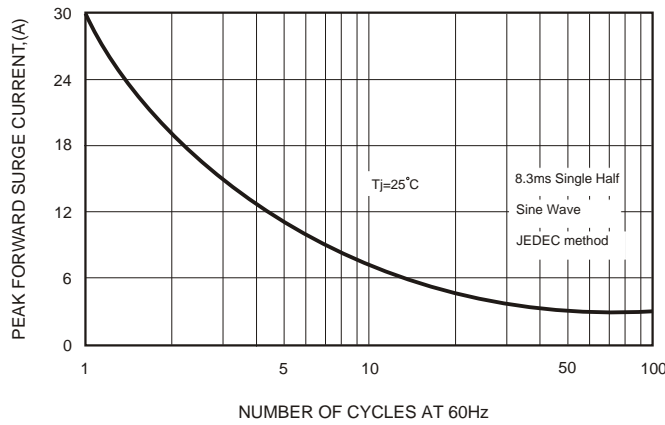


FIG.4-TYPICAL JUNCTION CAPACITANCE

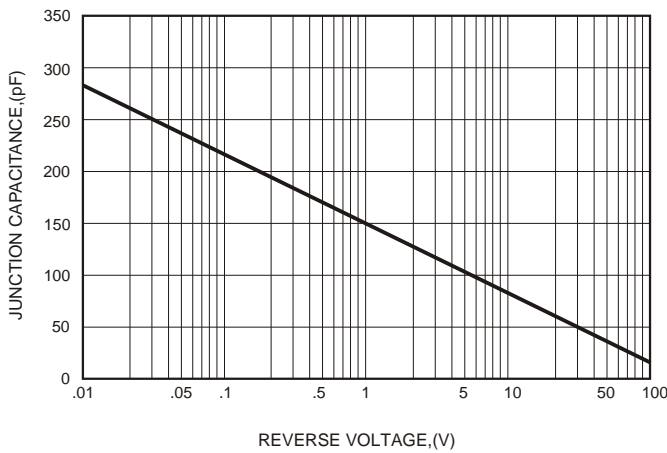
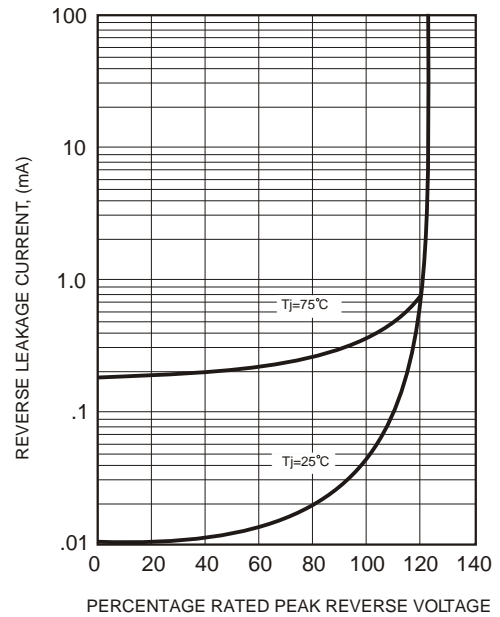
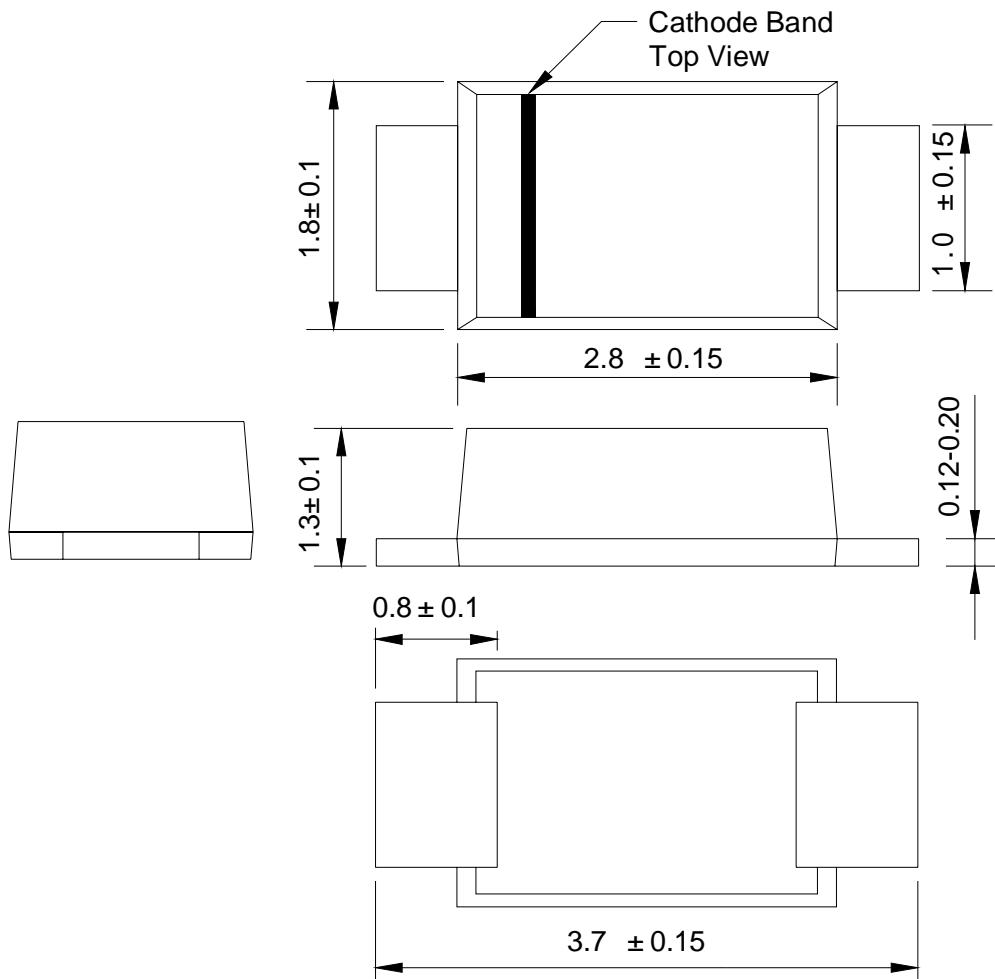


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





SOD-123FL Package Outline Dimensions





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