



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 Ta=25°C				0.2					mA
at Rated DC Blocking Voltage Ta=100°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

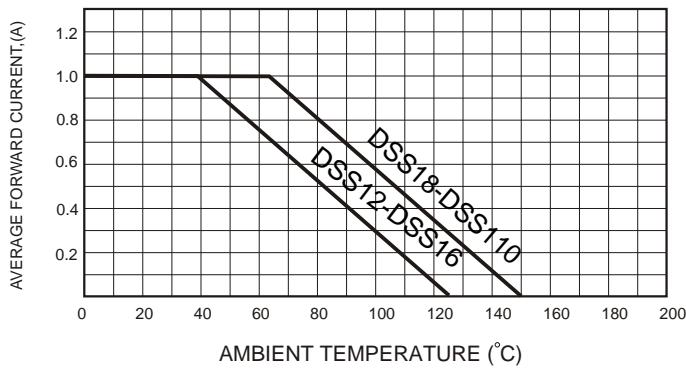


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

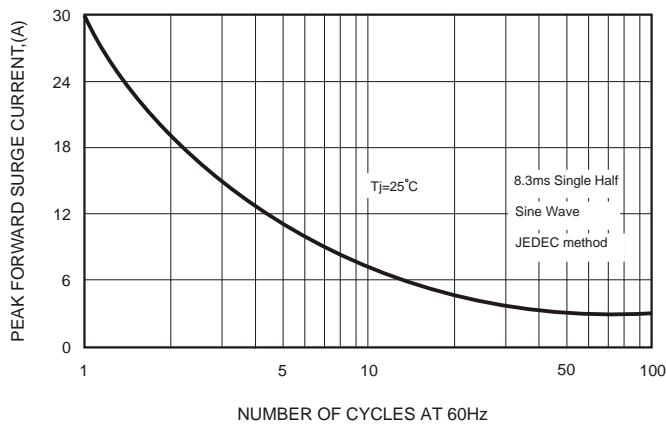


FIG.4-TYPICAL JUNCTION CAPACITANCE

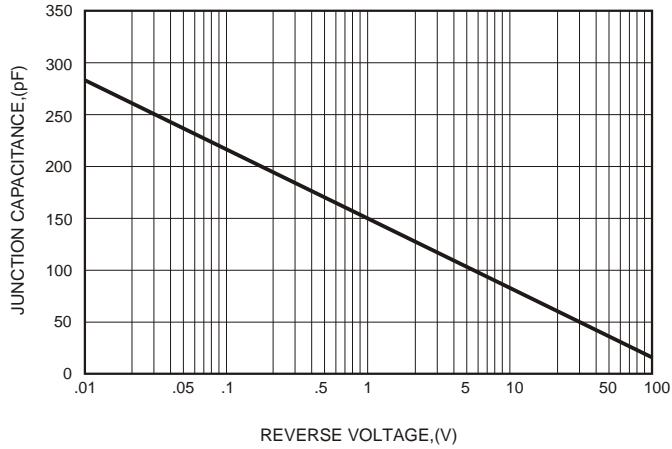


FIG.2-TYPICAL FORWARD

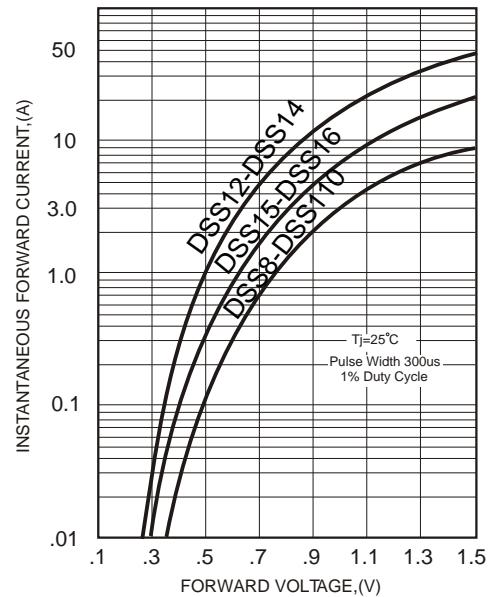
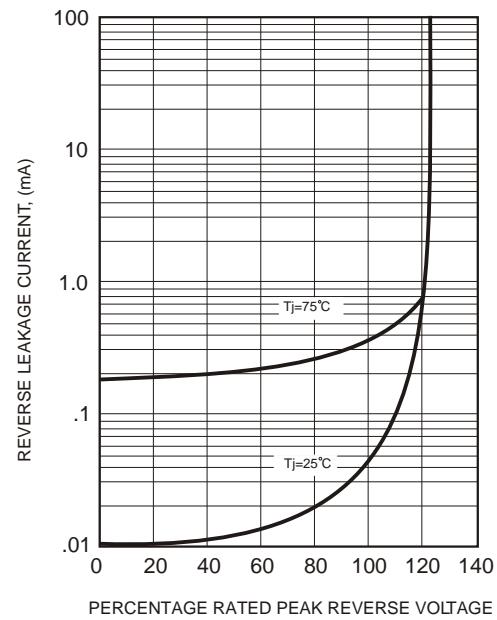
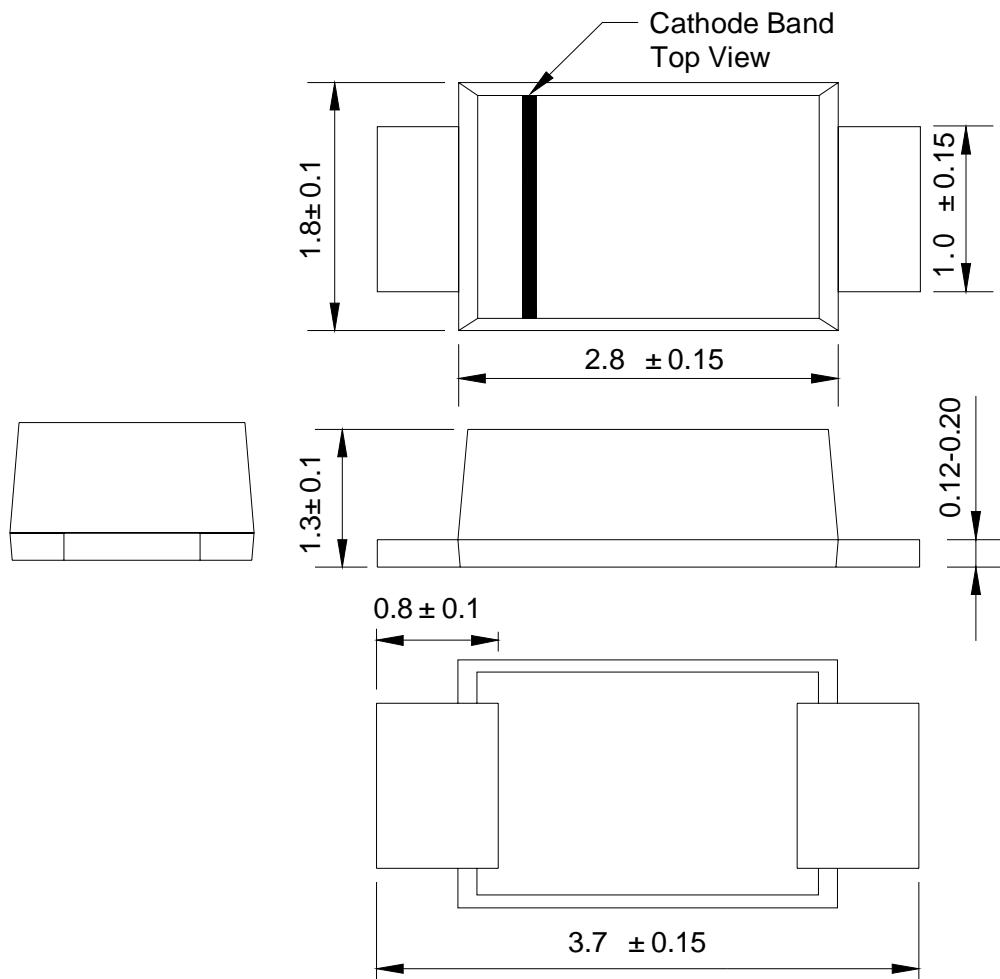


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





SOD-123FL Package Outline Dimensions





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