



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)
HS1MFL	SOD-123FL	Ax	3000

x: From 1-7



Maxmim Ratings (Ta=25 unless otherwise noted)

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

For capacitive load, derate current by 20%.

TYPE NUMBER	A1	A2	A3	A4	A5	A6	A7	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=75°C				1.0				A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)			25					A
Maximum Instantaneous Forward Voltage at 1.0A				1.1				V
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage Ta=100°C				5.0				A
Typical Junction Capacitance (Note 1)				15				pF
Typical Thermal Resistance R _{θJA} (Note 2)				80				°C/W
Operating and Storage Temperature Range T _J , T _{STG}				-65—+150				°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient.



Typical Characteristics

FIG.1-TYPICAL FORWARD
CHARACTERISTICS

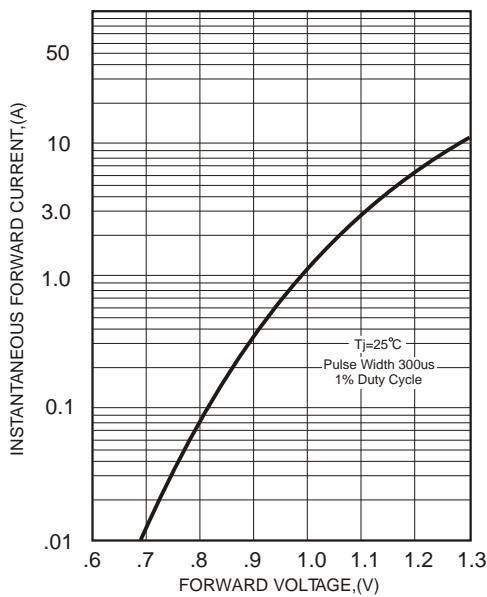


FIG.3 - TYPICAL REVERSE
CHARACTERISTICS

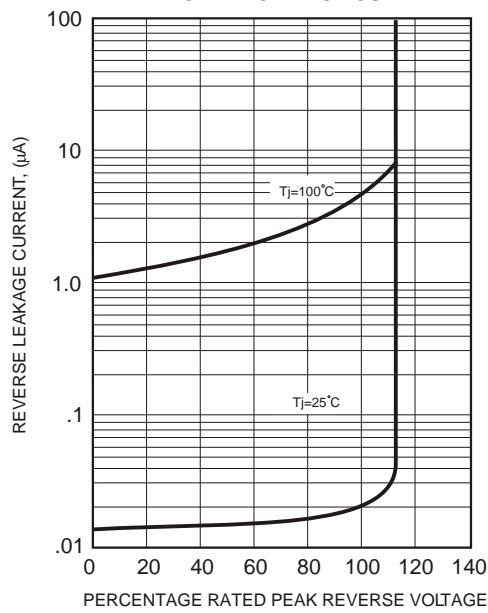


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

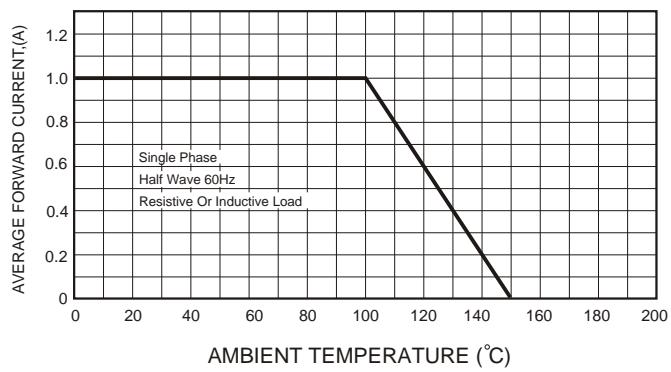


FIG.4-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

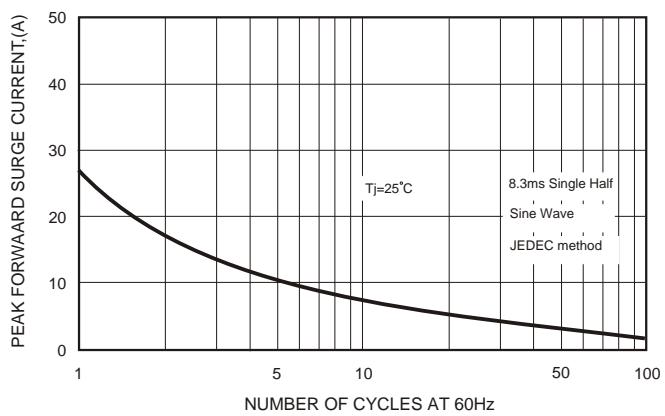
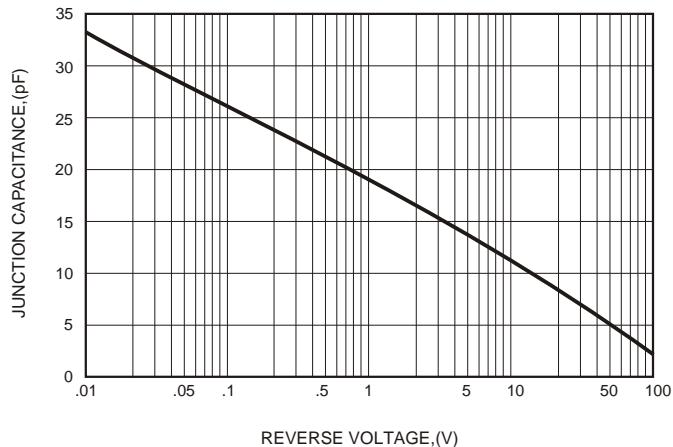
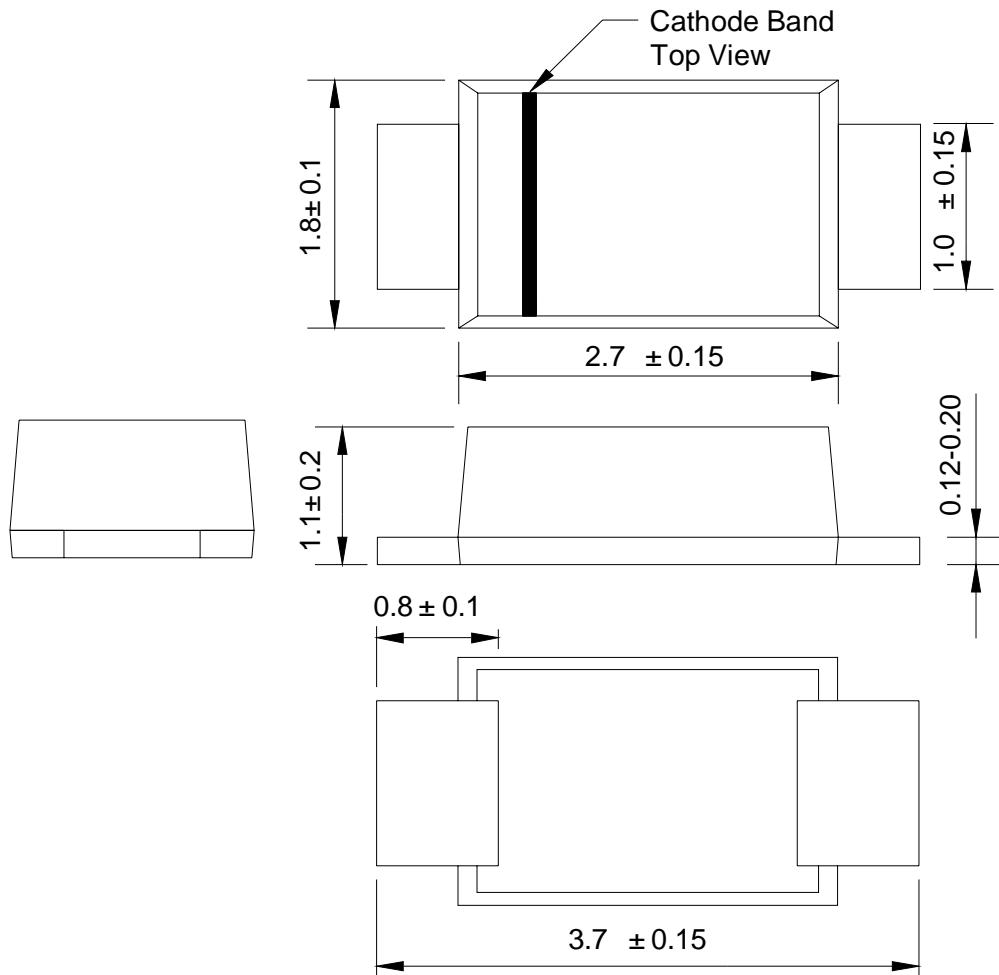


FIG.5-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions
SOD-123FL





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