



Features

- Ideal for surface mount applications
- Polarity: Color band denotes cathode
- Built-in strain relief
- Low forward voltage drop



SOD-123FL

Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SK215-SK220	SOD-123FL	K2x	3000

x :From 15-20

Maximum Ratings (Ta=25°C 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	SK215	SK220	Units
Maximum Recurrent Peak Reverse Voltage	150	200	
Maximum RMS Voltage	105	140	
Maximum DC Blocking Voltage	150	200	
Maximum Average Forward Rectified Current at T _L =100°C	2.0		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50		A
Maximum Instantaneous Forward Voltage at 2.0A	0.92		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 2	0.02	mA
	Ta=100°C	2	mA
Typical Junction Capacitance (Note 1)	170		PF
Typical Thermal Resistance R _{θJL} (Note 2)	80		°C/W
Operating Temperature Range T _J	-65 — +175		°C
Storage Temperature Range T _{STG}	-65 — +175		°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

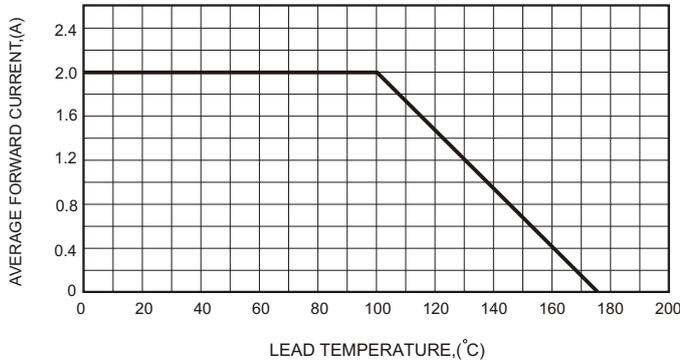


FIG.2-TYPICAL FORWARD CHARACTERISTICS

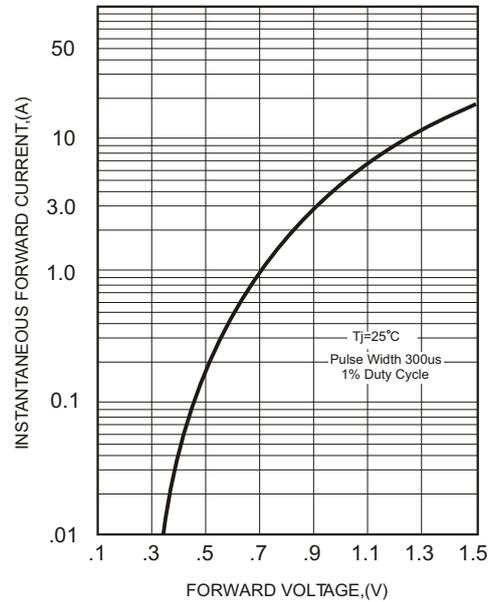


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

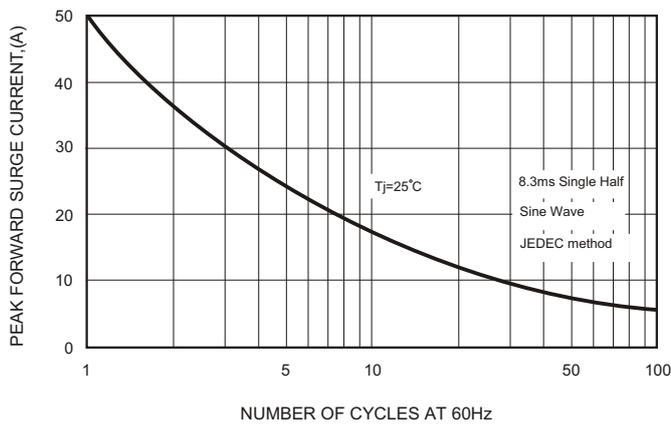


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

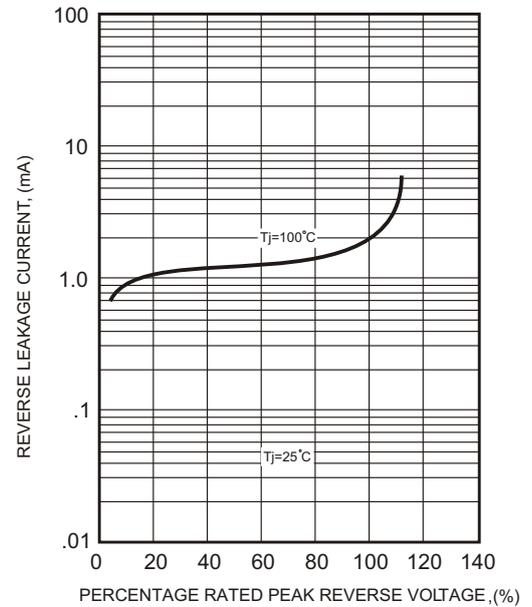
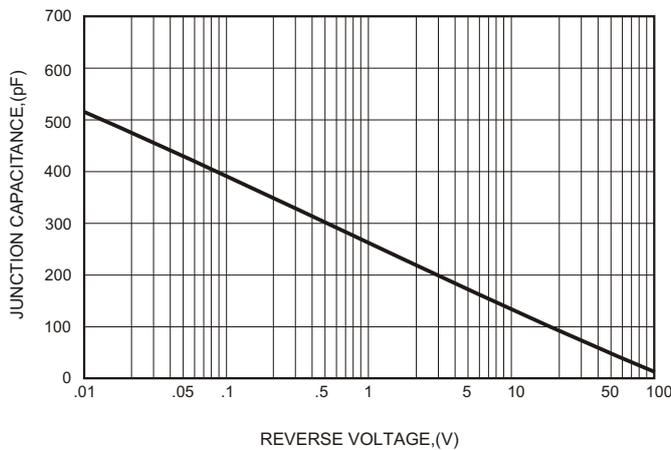
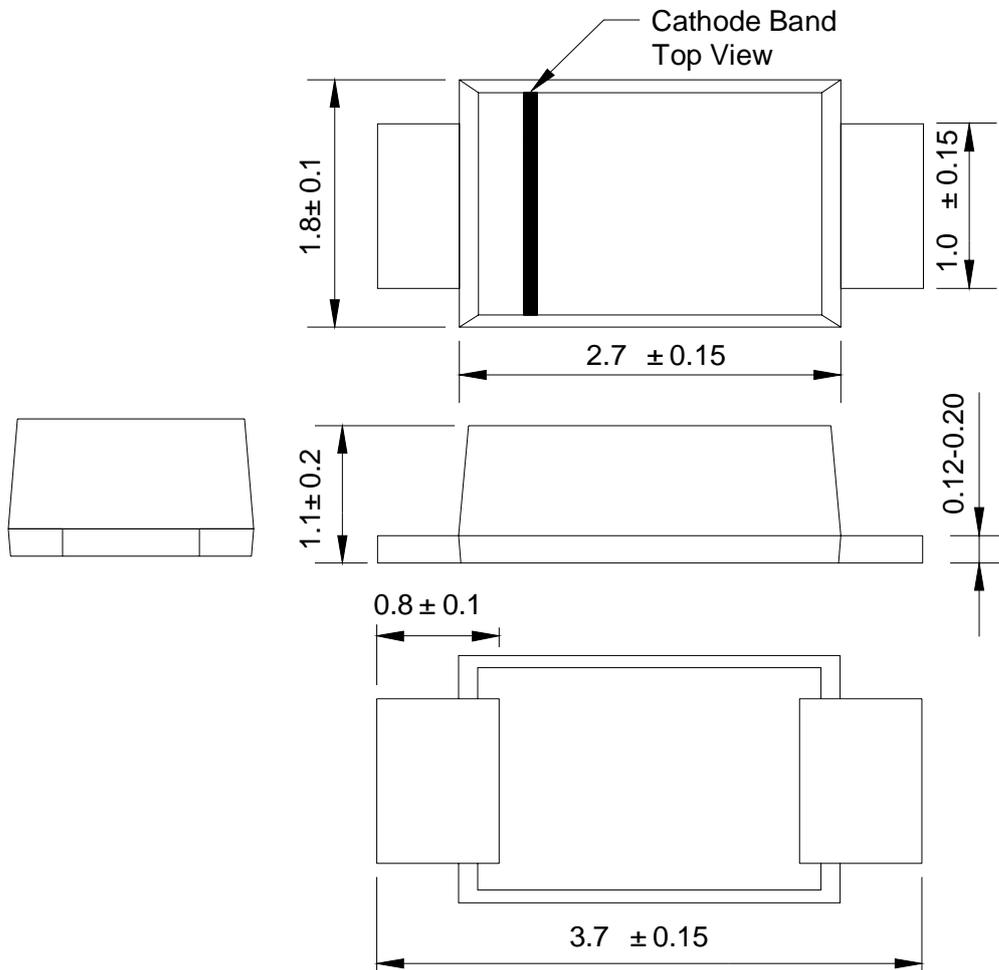


FIG.4-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions
SOD-123FL





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