



## 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)
MBR2H200SFT3G	SOD-123FL	K220	3000

## 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		Limit	Units
Maximum Recurrent Peak Reverse Voltage		200	
Maximum RMS Voltage		140	
Maximum DC Blocking Voltage		200	
Maximum Average Forward Rectified Current at TL=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	Ta=25°C	0.02	mA
	Ta=100°C	2	mA
Typical Junction Capacitance (Note1)		170	PF
Typical Thermal Resistance R <sub>θ</sub> JL (Note 2)		80	°C/W
Operating Temperature Range T <sub>J</sub>		-65 — +175	°C
Storage Temperature Range T <sub>STG</sub>		-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

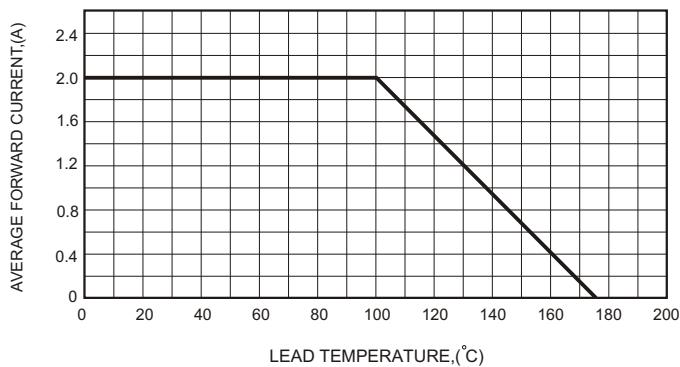


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

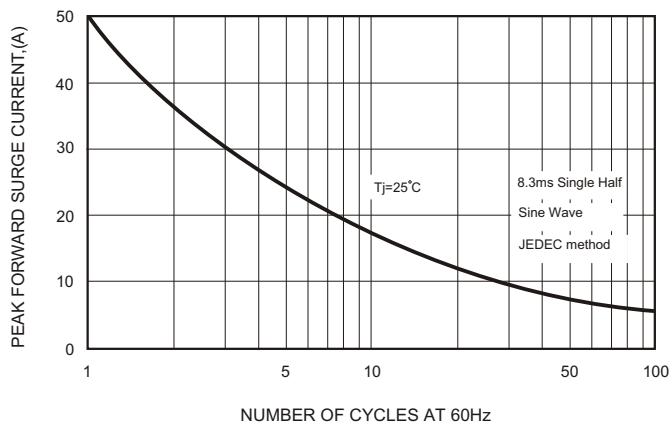


FIG.4-TYPICAL JUNCTION CAPACITANCE

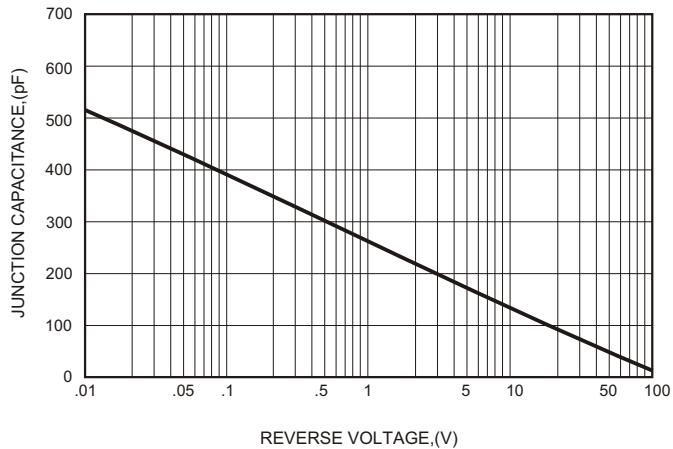


FIG.2-TYPICAL FORWARD CHARACTERISTICS

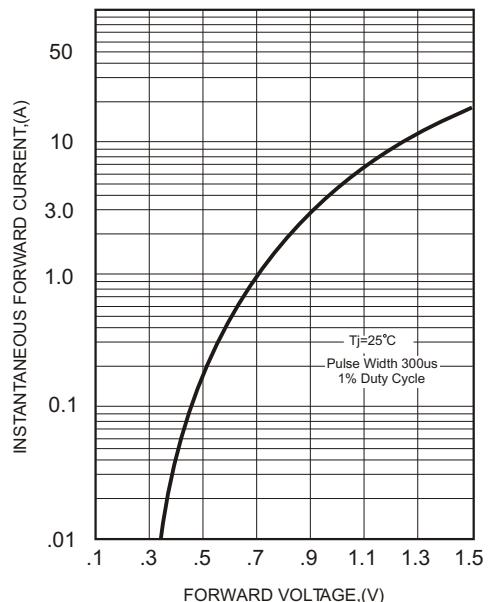
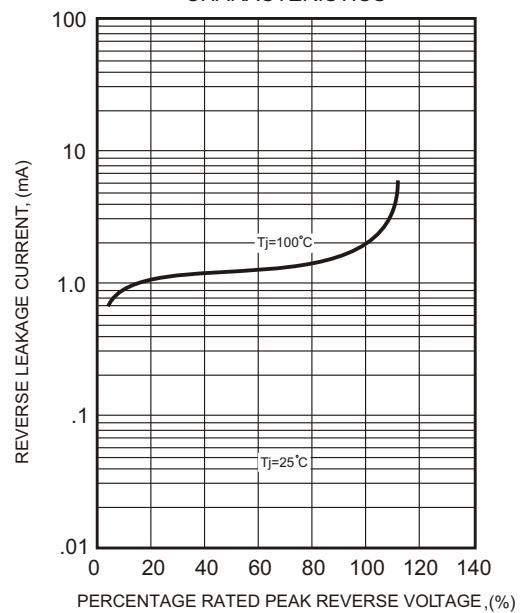
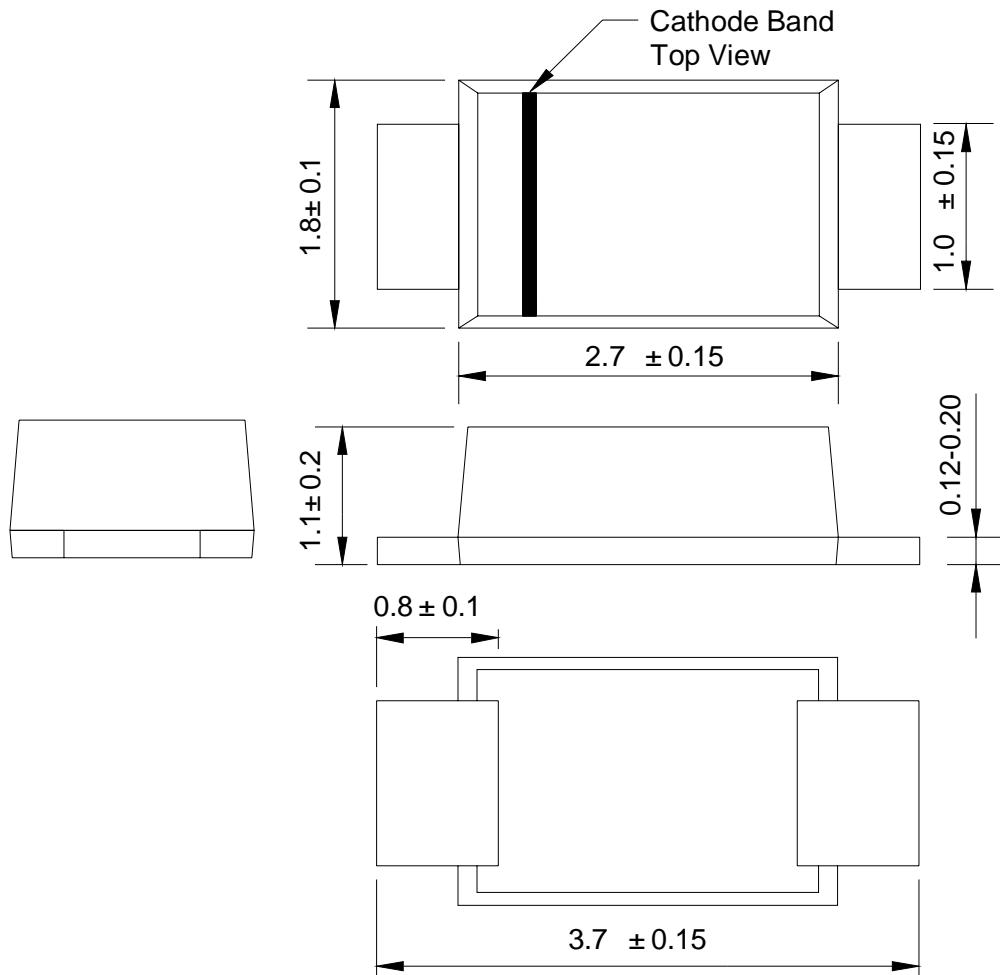


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





**Package Outline Dimensions**  
**SOD-123FL**





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