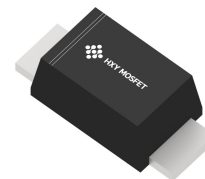




## Features

- Average Forward Current:  $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode



SOD-123FL

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RBR3MM40ATR	SOD-123FL	K34	3000



## Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Type Number	Limit	Unit
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	28	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current At $T_L=100^{\circ}C$	3.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	80	A
Maximum Instantaneous Forward Voltage at 3.0A	0.55	V
Maximum DC Reverse Current $T_a=25^{\circ}C$	0.1	mA
at Rated DC Blocking Voltage $T_a=100^{\circ}C$	5	mA
Typical Junction Capacitance (Note1)	300	pF
Typical Thermal Resistance R <sub>JL</sub> (Note 2)	10	$^{\circ}C/W$
Operating junction Temperature Range $T_J$	-65 — +150	$^{\circ}C$
Storage Temperature Range $T_{STG}$	-65 — +150	$^{\circ}C$

### 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

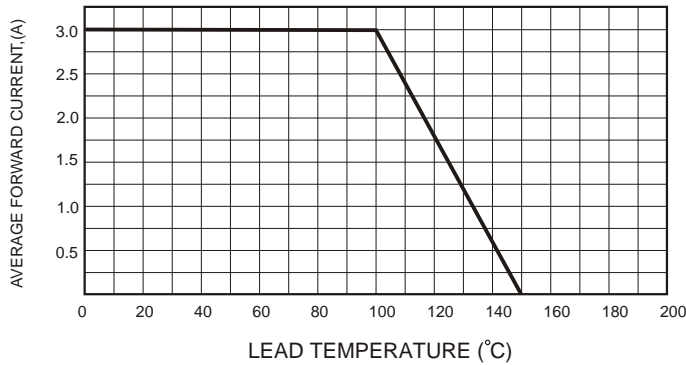


FIG.2-TYPICAL FORWARD

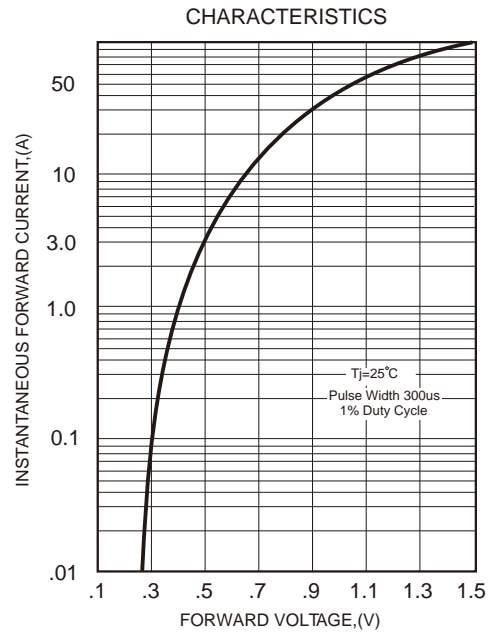


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

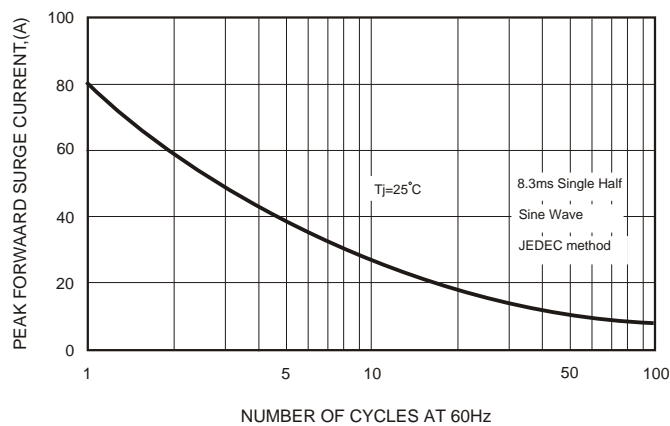


FIG.5 - TYPICAL REVERSE

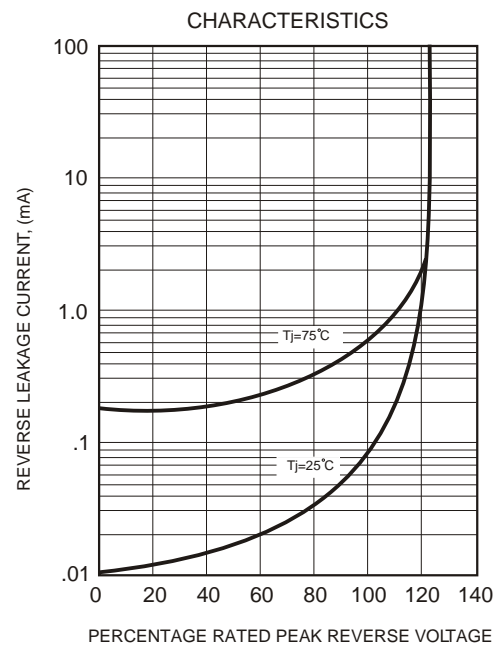
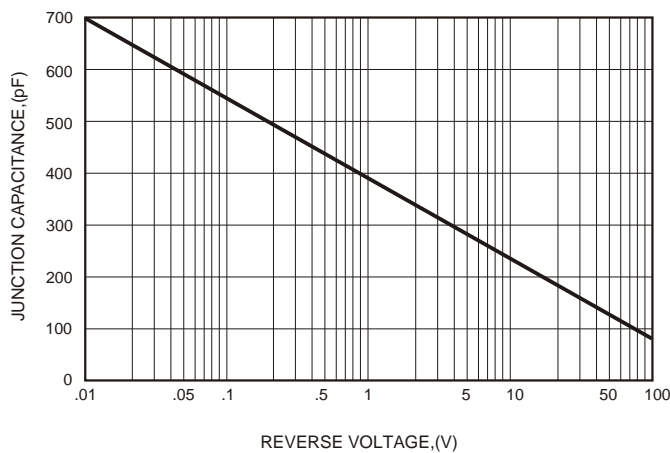
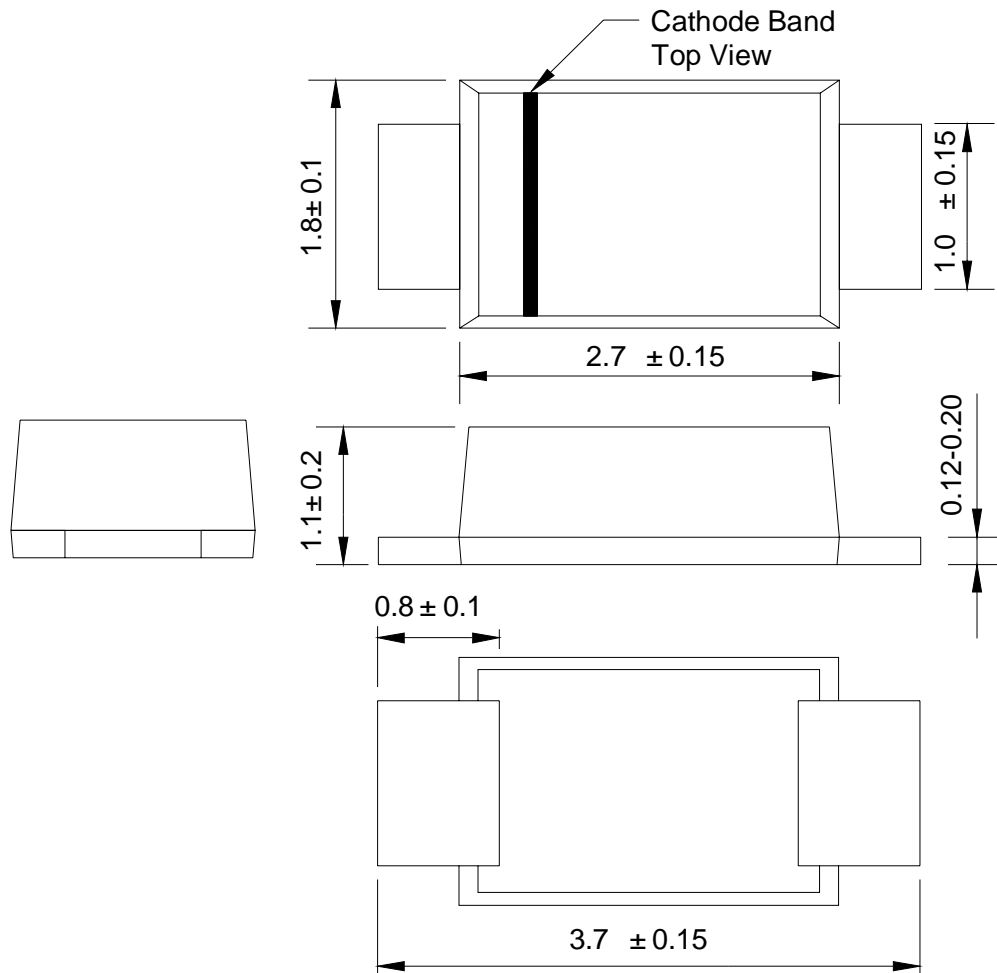


FIG.4-TYPICAL JUNCTION CAPACITANCE





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





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