



## 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) |
|----------------------|-----------|---------|----------|
| SS1060FL-AU_R1_000A1 | SOD-123FL | K16     | 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                                                                | 60         | V    |
| Maximum RMS Voltage                                                                                   | 42         | V    |
| Maximum DC Blocking Voltage                                                                           | 60         | V    |
| Maximum Average Forward Rectified Current<br>See Fig. 1                                               | 1.0        | A    |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 30         | A    |
| Maximum Instantaneous Forward Voltage at 1.0A                                                         | 0.7        | V    |
| Maximum DC Reverse Current<br>Ta=25°C                                                                 | 0.2        | mA   |
| at Rated DC Blocking Voltage<br>Ta=100°C                                                              | 10         | mA   |
| Typical Junction Capacitance (Note1)                                                                  | 110        | pF   |
| Typical Thermal Resistance RqJA (Note 2)                                                              | 80         | °C/W |
| Operating Temperature Range Tj                                                                        | -65 — +125 | °C   |
| Storage Temperature Range Tstg                                                                        | -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

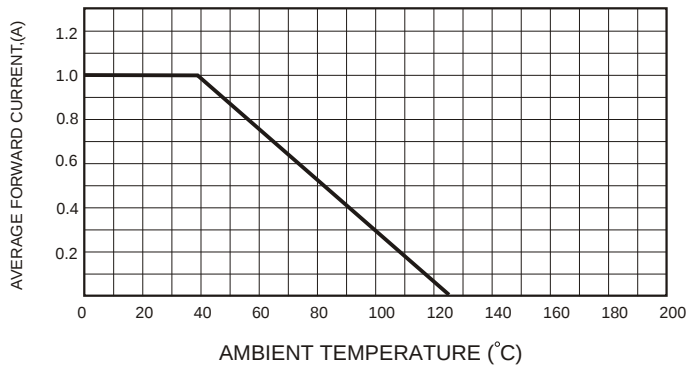


FIG.2-TYPICAL FORWARD CHARACTERISTICS

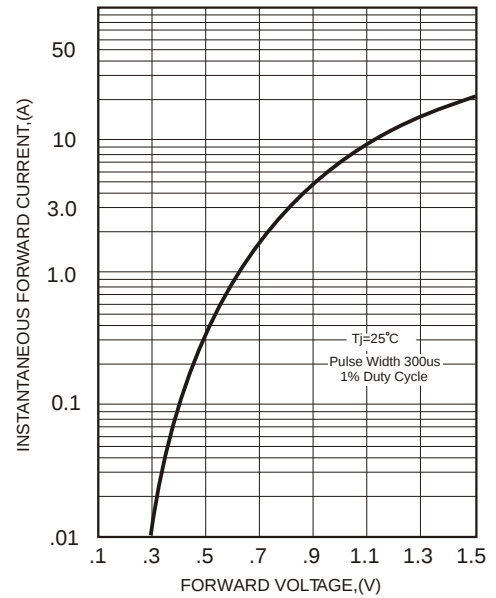


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

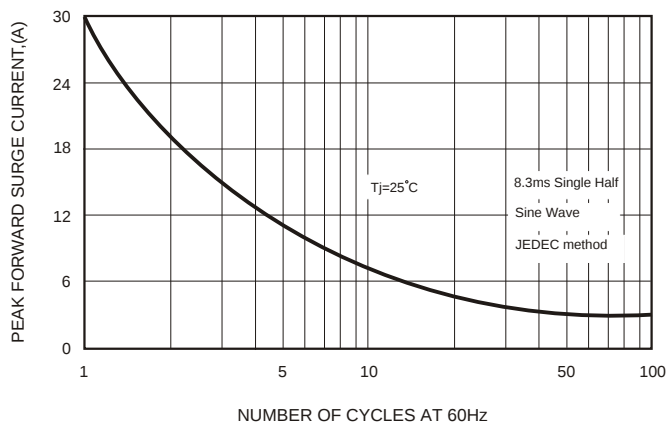


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

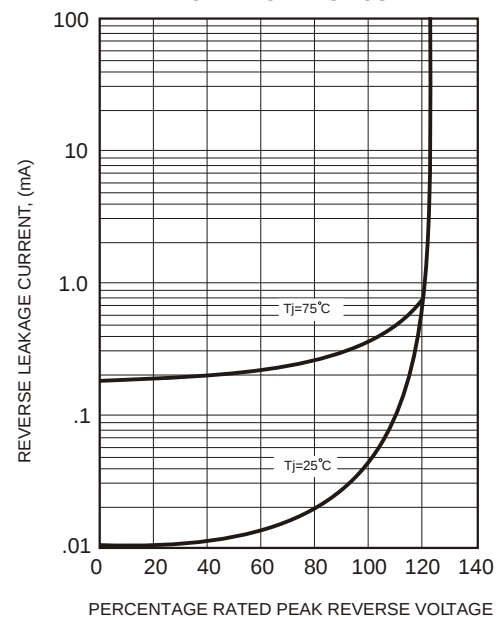
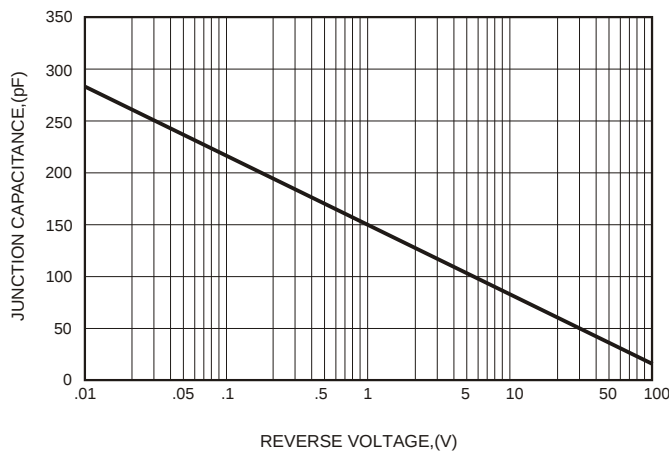
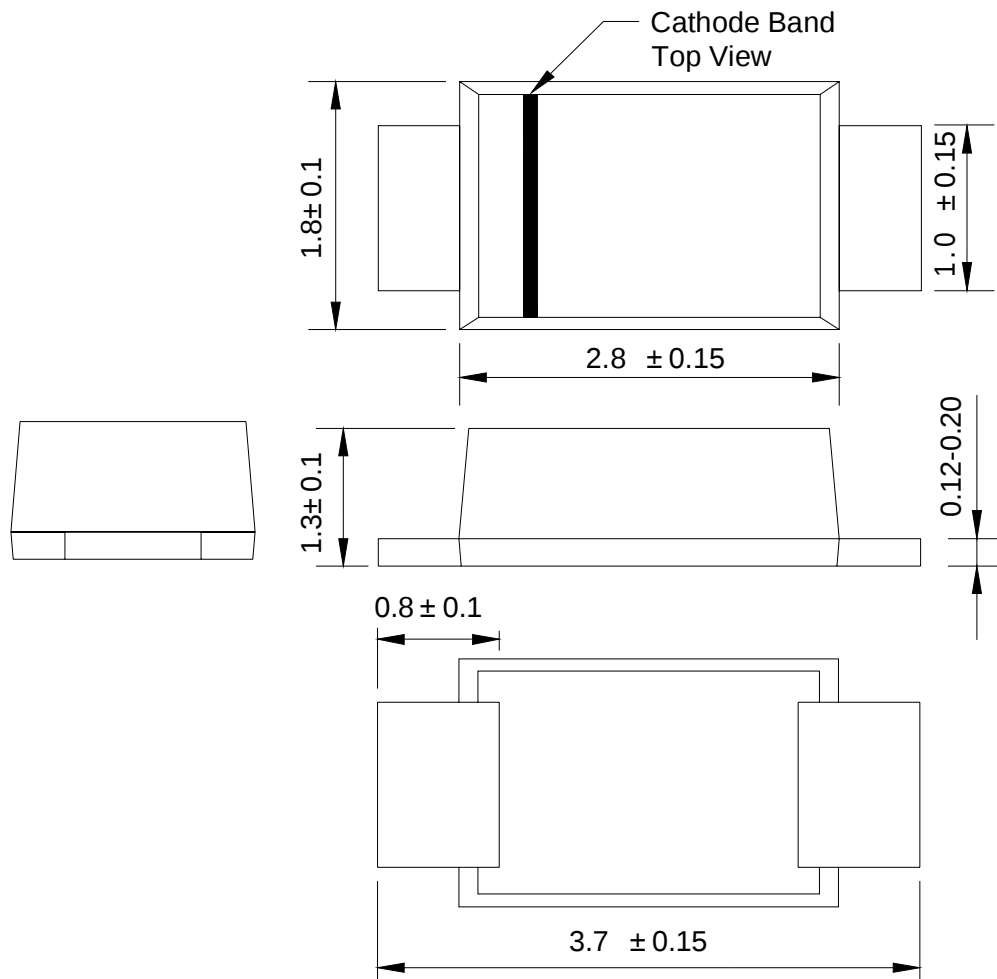


FIG.4-TYPICAL JUNCTION CAPACITANCE





## SOD-123FL Package Outline Dimensions





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