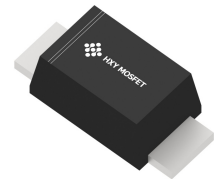




## Features

- Average Forward Current:  $I_{F(AV)}=1A$
- Polarity: Color band denotes cathode



## Package Marking and Ordering Information

| Product ID  | Pack      | Marking | Qty(PCS) |
|-------------|-----------|---------|----------|
| SL04-HE3-08 | SOD-123FL | K14     | 3000     |

SOD-123FL



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

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

| Type Number                                                                                        | Limit      | Units |
|----------------------------------------------------------------------------------------------------|------------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 40         | V     |
| Maximum RMS Voltage                                                                                | 28         | V     |
| Maximum DC Blocking Voltage                                                                        | 40         | V     |
| Maximum Average Forward Rectified Current See Fig. 1                                               | 1.0        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 30         | A     |
| Maximum Instantaneous Forward Voltage at 1.0A                                                      | 0.55       | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 0.2        | mA    |
| at Rated DC Blocking Voltage 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

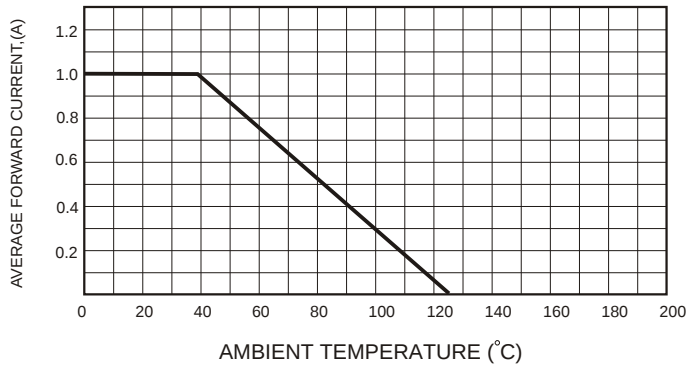


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

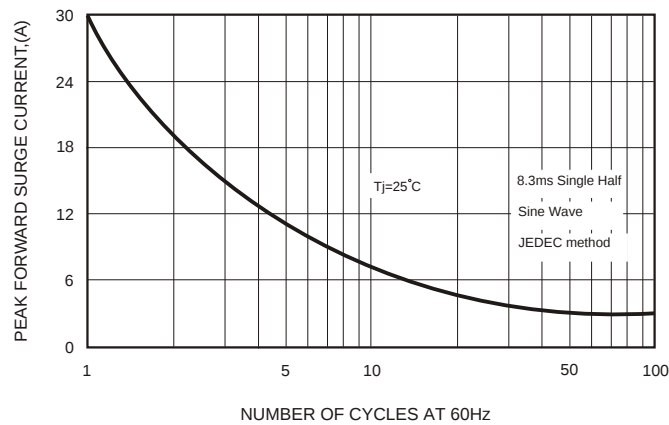


FIG.4-TYPICAL JUNCTION CAPACITANCE

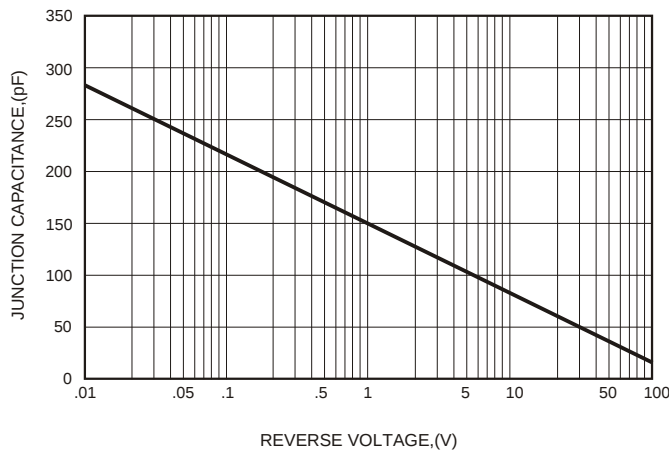


FIG.2-TYPICAL FORWARD CHARACTERISTICS

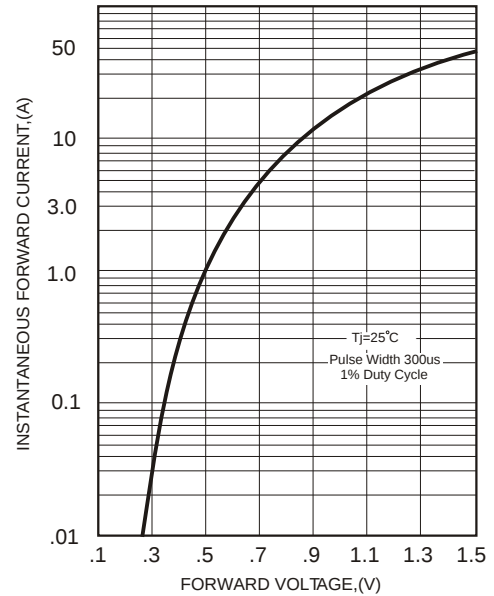
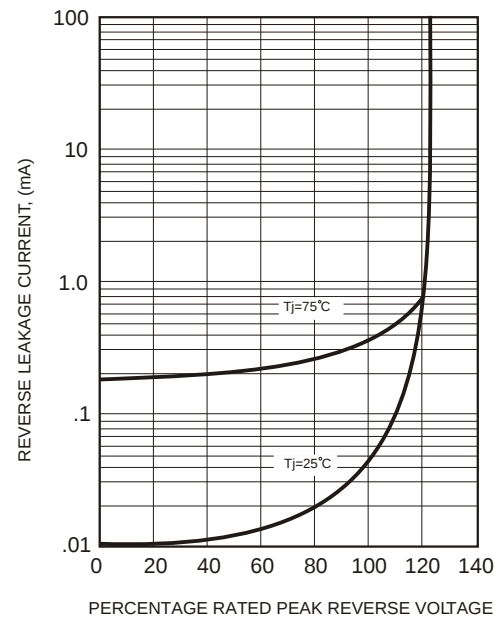
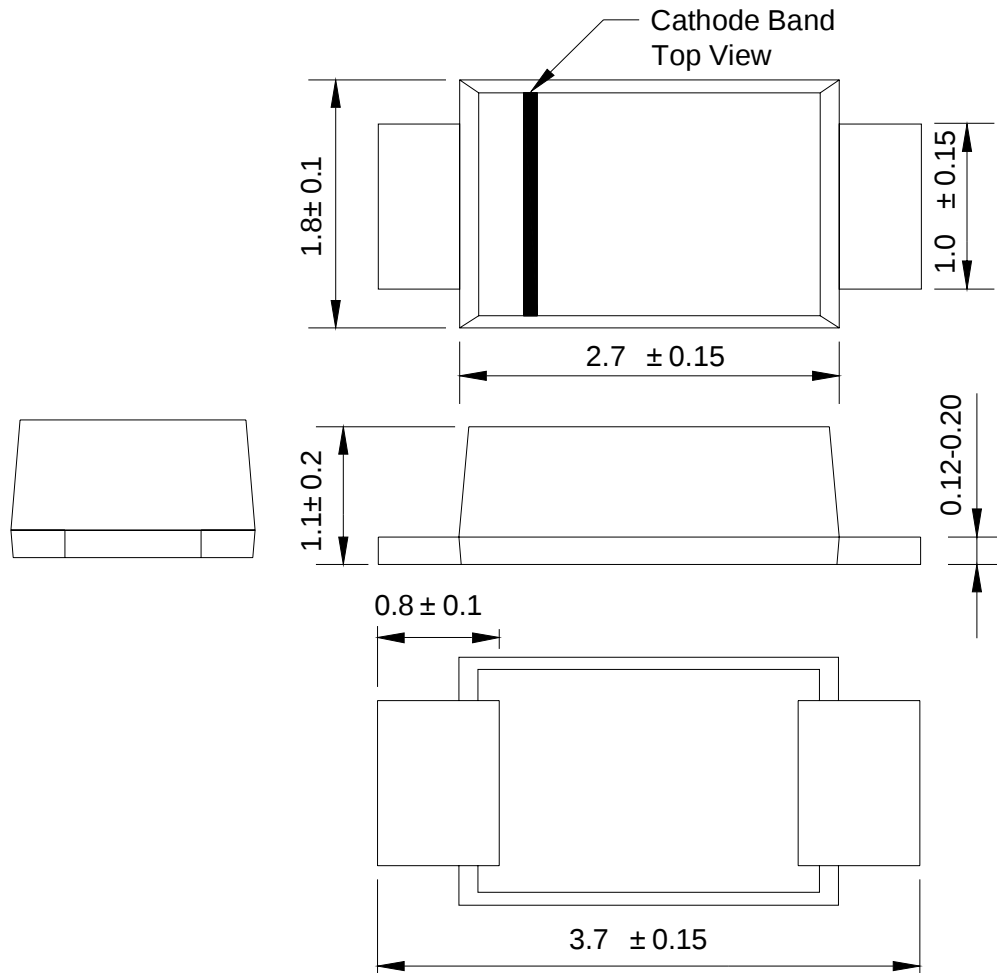


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





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





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