



## Features

- Average Forward Current:  $I_{F(AV)}=2A$
- Polarity: Color band denotes cathode



SOD-123FL



## Package Marking and Ordering Information

| Product ID  | Pack      | Marking | Qty(PCS) |
|-------------|-----------|---------|----------|
| SS210LW RVG | SOD-123FL | K210    | 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      | Units |
|-------------------------------------------------------------------------------------------------------|------------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                                | 100        | V     |
| Maximum RMS Voltage                                                                                   | 70         | V     |
| Maximum DC Blocking Voltage                                                                           | 100        | V     |
| Maximum Average Forward Rectified Current<br>See Fig. 1                                               | 2.0        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 50         | A     |
| Maximum Instantaneous Forward Voltage at 2.0A                                                         | 0.85       | V     |
| Maximum DC Reverse Current Ta=25°C                                                                    | 0.02       | mA    |
| at Rated DC Blocking Voltage Ta=100°C                                                                 | 2          | mA    |
| Typical Junction Capacitance (Note1)                                                                  | 170        | pF    |
| Typical Thermal Resistance R JA (Note 2)                                                              | 80         | °C/W  |
| Operating Temperature Range Tj                                                                        | -65 — +150 | °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

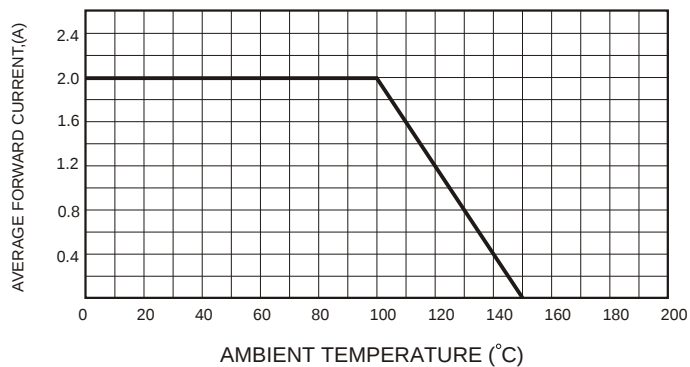


FIG.2-TYPICAL FORWARD  
CHARACTERISTICS

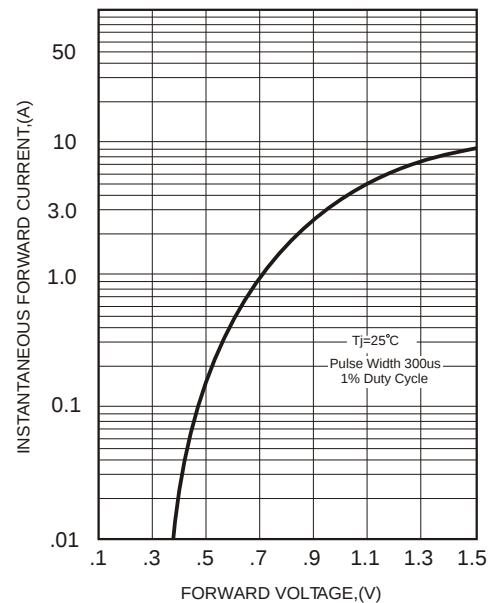


FIG.3-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

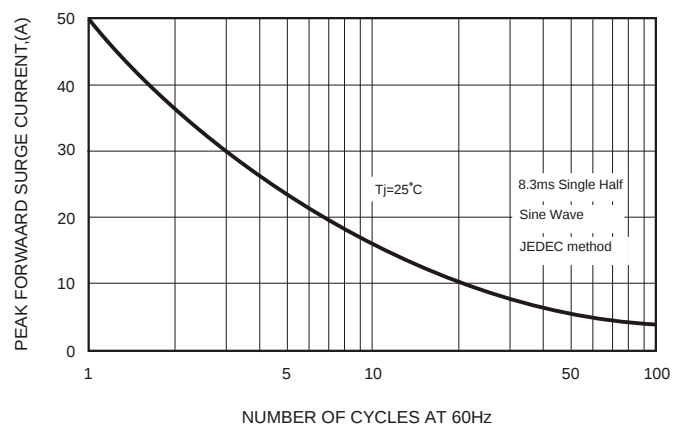


FIG.5 - TYPICAL REVERSE  
CHARACTERISTICS

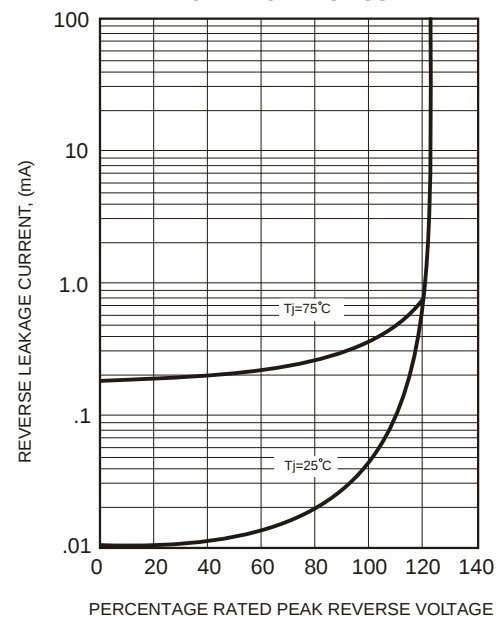
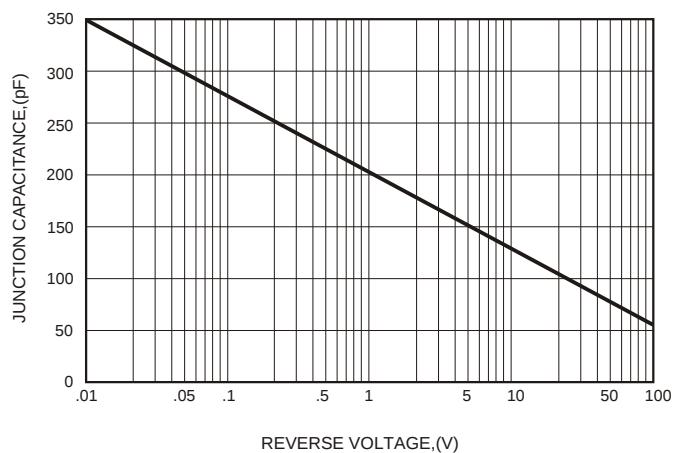
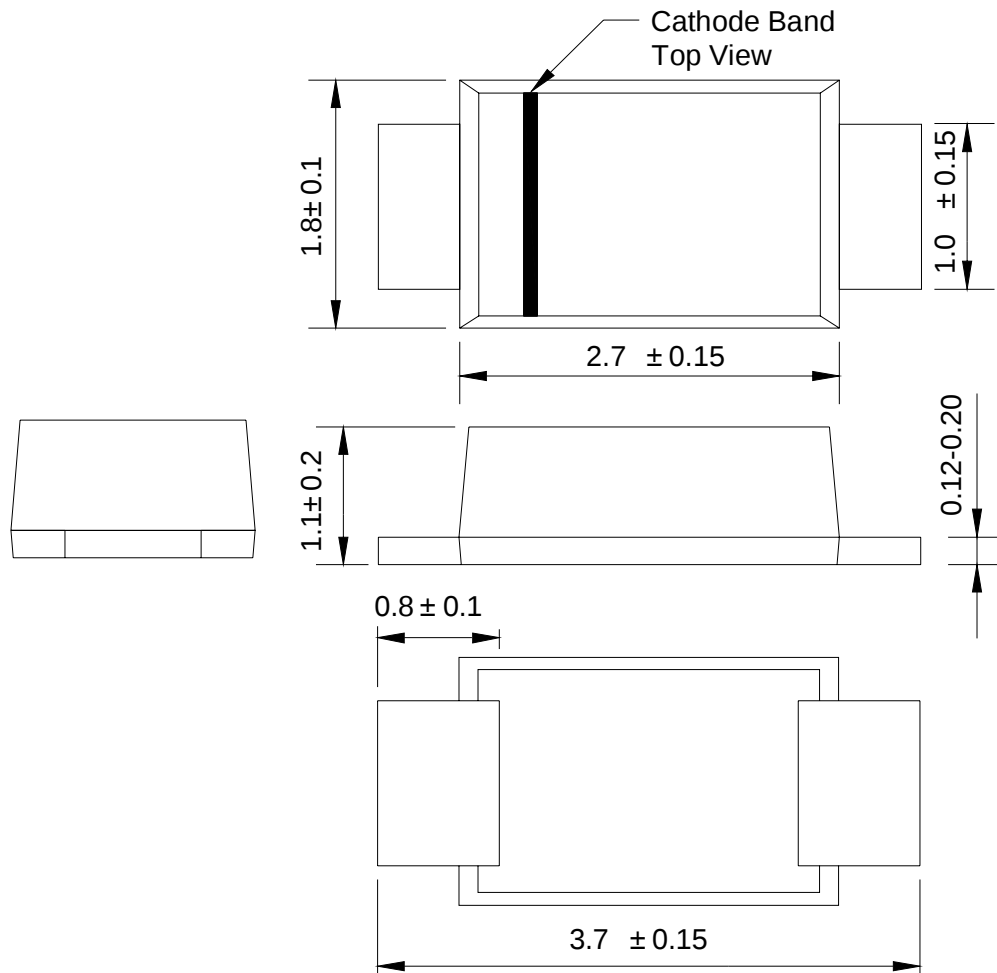


FIG.4-TYPICAL JUNCTION CAPACITANCE





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





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