



FEATURES

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



SOD-123F
SOD-123FL

Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|--------------|----------|---------|----------|
| DSS12-DSS110 | SOD-123F | K1★ | 3000 |

★:From 2-10



Maxmim Ratings (Ta=25 unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

| TYPE NUMBER | DSS12 | DSS13 | DSS14 | DSS15 | DSS16 | DSS18 | DSS19 | DSS110 | UNITS |
|---|--------------------|-------|-------|-------|------------|-------|-------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V |
| Maximum RMS Voltage | 14 | 21 | 28 | 35 | 42 | 56 | 63 | 70 | V |
| Maximum DC Blocking Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | 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 | | 0.70 | | 0.85 | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $T_a=25^{\circ}C$ | | | | 0.2 | | | | mA |
| | $T_a=100^{\circ}C$ | | | | 10 | | | | mA |
| Typical Junction Capacitance (Note1) | 110 | | | | | | | | pF |
| Typical Thermal Resistance R JA (Note 2) | 80 | | | | | | | | °C/W |
| Operating Temperature Range Tj | -65 — +125 | | | | -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

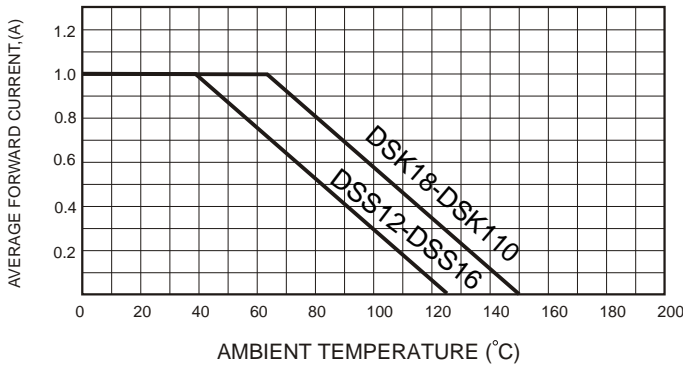


FIG.2-TYPICAL FORWARD CHARACTERISTICS

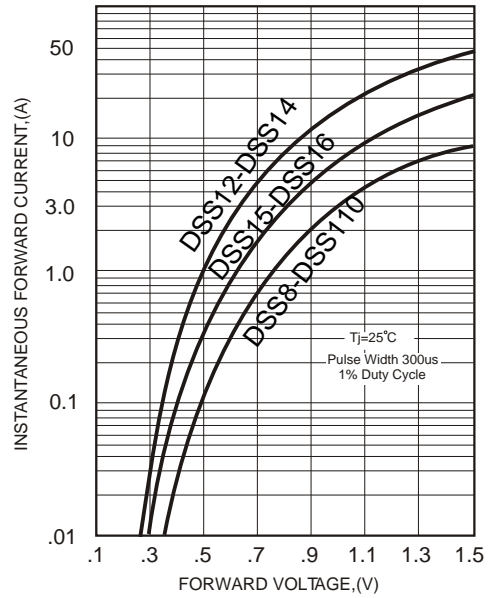


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

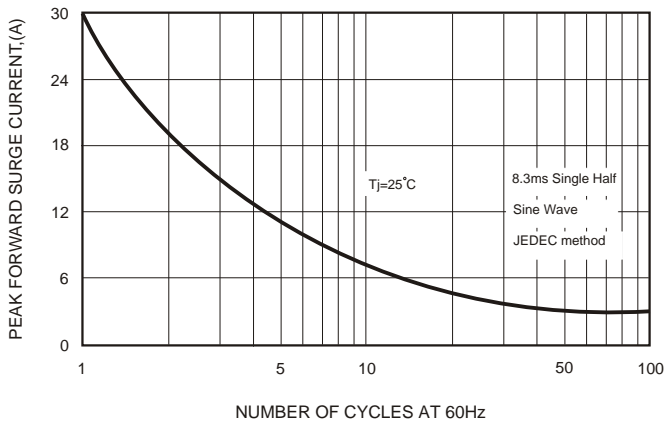


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

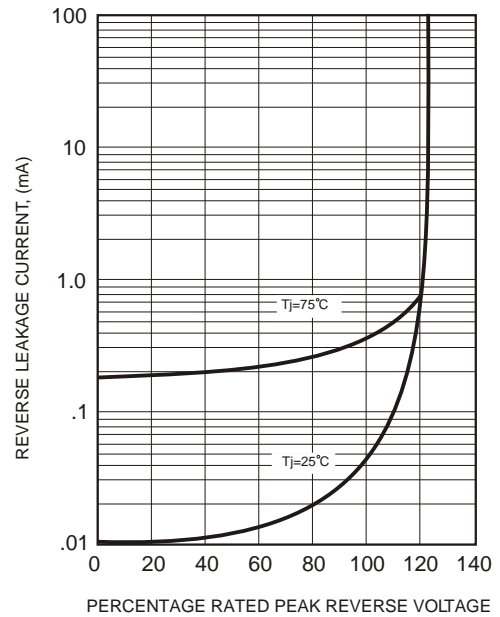
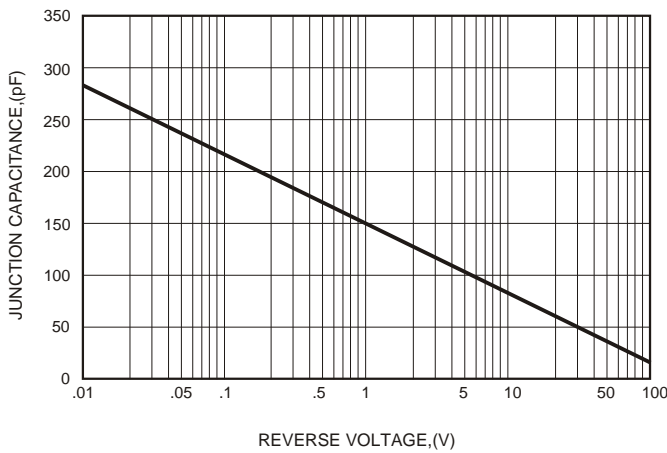
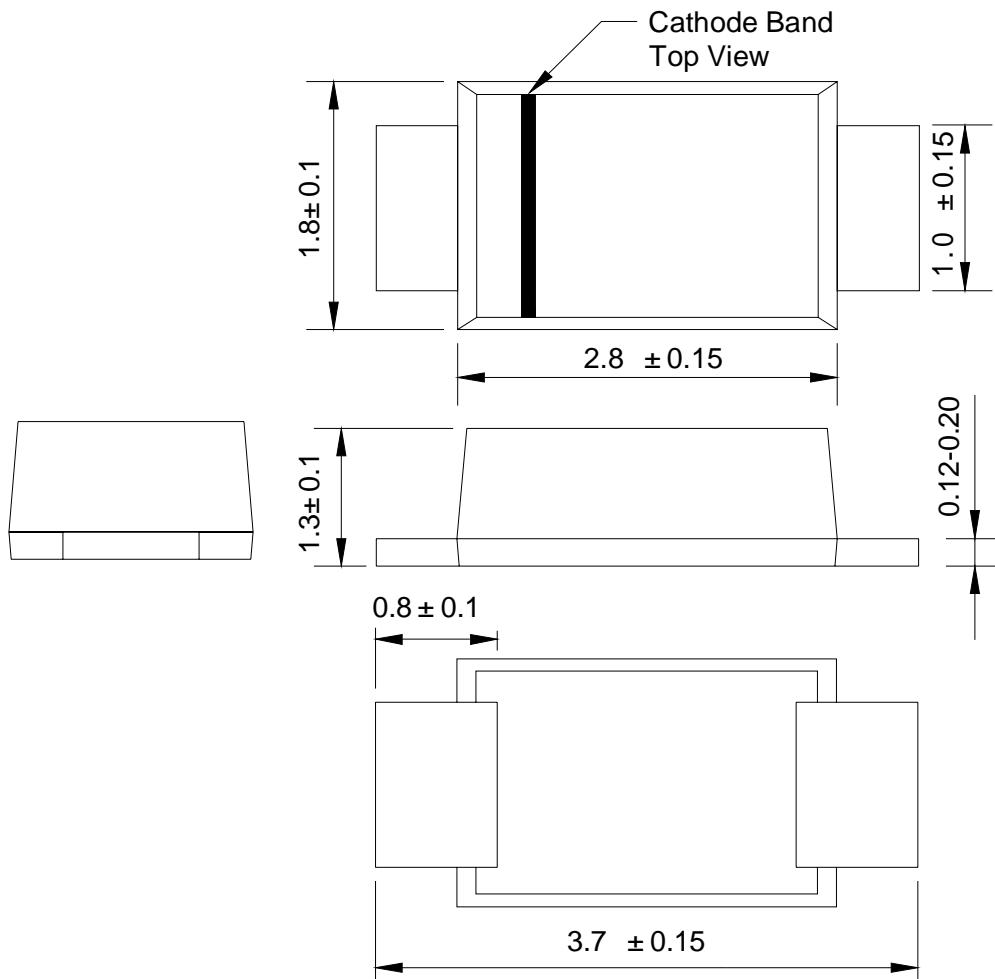


FIG.4-TYPICAL JUNCTION CAPACITANCE





SOD-123FL Package Outline Dimensions





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