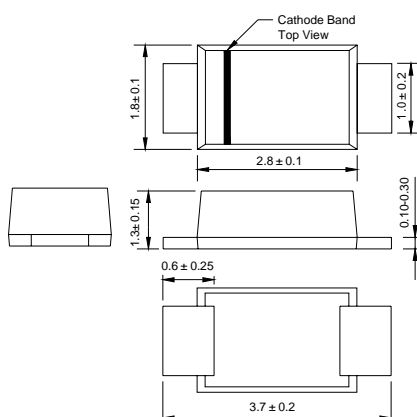


ES1006FL

| | |
|---|--|
| <p style="text-align: center;">SOD-123FL</p>  <p style="text-align: center;">Dimensions in millimeters</p> | <p style="text-align: center;">FEATURES</p> <ul style="list-style-type: none"> ◆ Glass passivated device ◆ Ideal for surface mounted applications ◆ Low reverse leakage ◆ Metallurgically bonded construction ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension <p style="text-align: center;">MECHANICAL DATA</p> <p>Case: JEDEC SOD-123FL molded plastic body over passivated chip Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.0007 ounce, 0.02 grams</p> |
|---|--|

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| Catalog Number | SYMBOLS | ES1006FL | UNITS |
|---|-----------------|--------------|---------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 600 | VOLTS |
| Maximum RMS voltage | V_{RMS} | 420 | VOLTS |
| Maximum DC blocking voltage | V_{DC} | 600 | VOLTS |
| Maximum average forward rectified current | $I_{(AV)}$ | 1.0 | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 25.0 | Amps |
| Maximum instantaneous forward voltage at 1.0A | V_F | 1.7 | Volts |
| Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=100^{\circ}C$ | I_R | 5.0 100.0 | μA |
| Maximum reverse recovery time (NOTE 1) | t_{rr} | 35 | ns |
| Typical junction capacitance (NOTE 2) | C_J | 10 | pF |
| Typical thermal resistance (NOTE 3) | $R_{\theta JA}$ | 85 | K/W |
| Operating junction and storage temperature range | T_J, T_{STG} | -55 to +150 | °C |

Note: 1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.
 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 3. PCB mounted on 0.2*0.2" (5.0*5.0mm) copper pad area.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

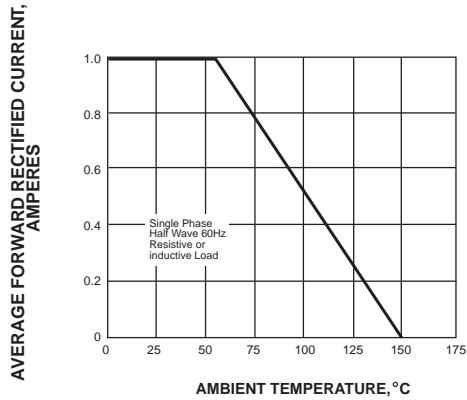


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

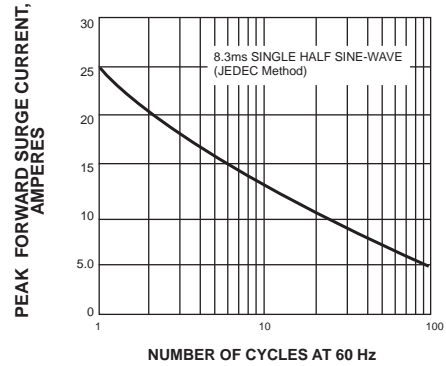


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

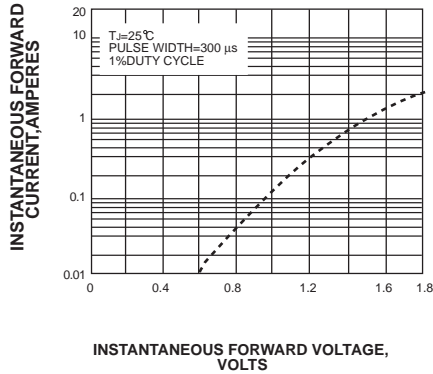


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

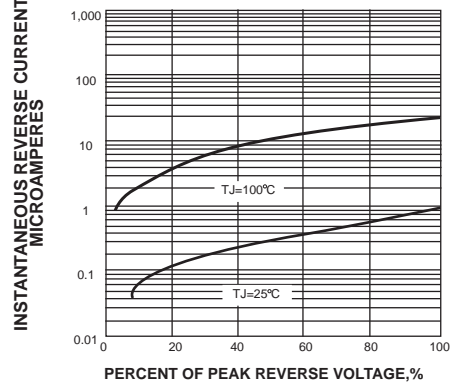


FIG. 5-TYPICAL JUNCTION CAPACITANCE

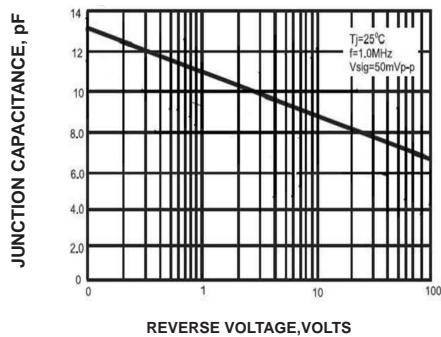
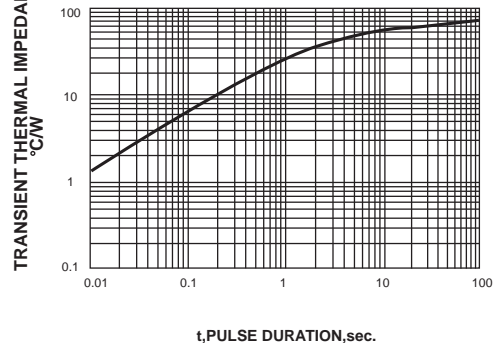


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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