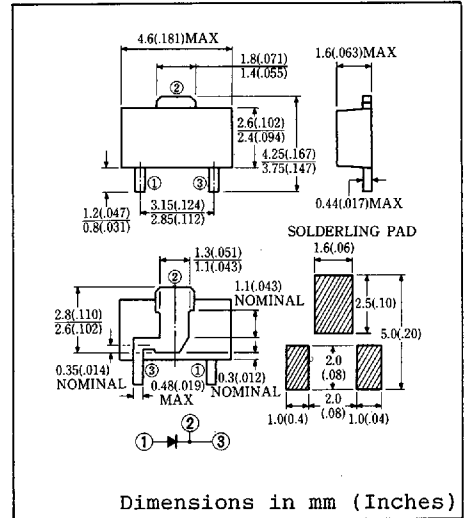


- Similar to TO-243AB (SOT-89) Case
- Surface Mount Device
- Ultra - Fast Recovery
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- 100 Volts thru 400 Volts Types Available
- Packaged in 12mm Tape and Reel



Approx. Net Weight : 0.05 Grams

MAXIMUM RATINGS

| Voltage Rating | TYPE | ◆ E11FS1 | ◆ E11FS2 | Unit | |
|--------------------------------------|--------------|---|----------|------------|------|
| | Symbol | | | | |
| Repetitive Peak Reverse Voltage | V_{RRM} | 100 | 200 | V | |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | 110 | 220 | V | |
| Electrical Rating | Symbol | Condition | | Rating | Unit |
| Average Rectified Output Current | I_O | 180° rectangular wave conduction P.C. Board mounted * $T_a = 23^\circ\text{C}$ | | 1.1 | A |
| | | 180° sinusoidal wave conduction P.C. Board mounted * $T_a = 32^\circ\text{C}$ | | 1.0 | |
| RMS Forward Current | $I_{F(RMS)}$ | | | 1.57 | A |
| Peak One-cycle Forward Surge Current | I_{FSM} | 50Hz half sine wave, non-repetitive | | 20 | A |
| Operating Junction Temperature Range | T_{jw} | | | -40 to 150 | °C |
| Storage Temperature Range | T_{stg} | | | -40 to 150 | °C |

ELECTRICAL & THERMAL CHARACTERISTICS

| Characteristics | Symbol | Test Condition | Max. | Unit |
|-----------------------|---------------|---|------|---------------|
| Peak Forward Voltage | V_{FM} | $I_{FM} = 1.0\text{A}$ $T_j = 25^\circ\text{C}$ | 0.98 | V |
| Peak Reverse Current | I_{RM} | $V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$ | 10 | μA |
| Reverse Recovery Time | t_{rr} | $I_{FM} = 1\text{A}$ $-di/dt = 50\text{A}/\mu\text{s}$ $T_j = 25^\circ\text{C}$ | 30 | ns |
| Thermal Resistance | $R_{th(j-a)}$ | Junction to Ambient, PCB mounted * | 110 | °C/W |

* P.C. Board Print Land = 15 x 15mm

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

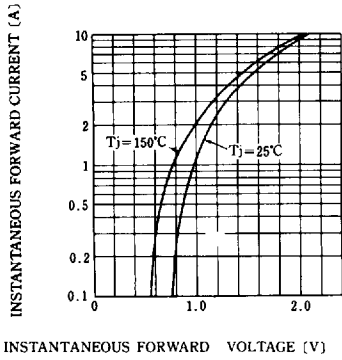


FIG.2-AVERAGE FORWARD POWER DISSIPATION

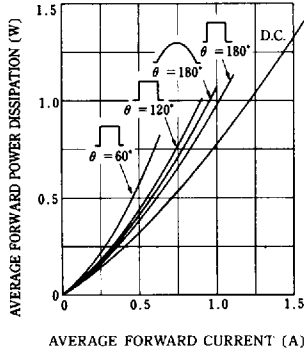


FIG.3-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

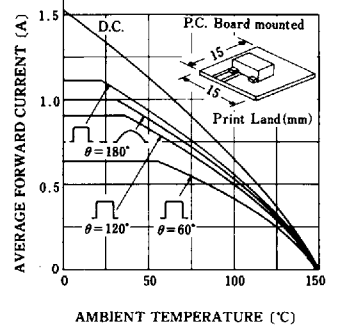
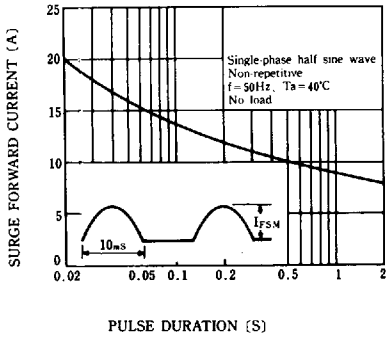


FIG.4-SURGE CURRENT RATINGS



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