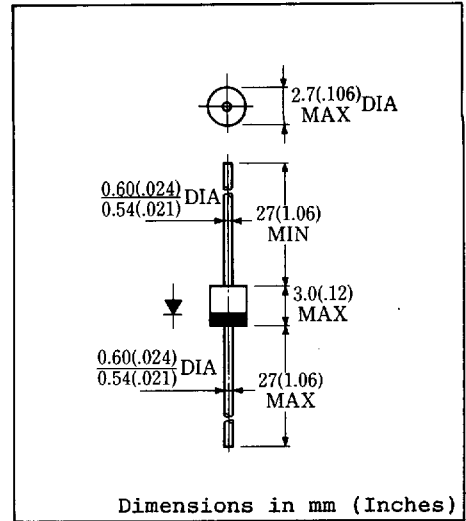


FEATURES

- Miniature Size
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 20 Volts thru 100 Volts Types Available
- 26mm and 52mm Inside Tape Spacing Package Available



Dimensions in mm (Inches)

Approx. Net Weight : 0.17 Grams.

MAXIMUM RATINGS

| Voltage Rating | TYPE | ◆ 11EQS05 | 11EQS06 | Unit | | |
|---|--------------|-------------------------------------|----------------------------------|--------------------|--------------------|---|
| | Symbol | | | | | |
| Repetitive Peak Reverse Voltage | V_{RRM} | 50 | 60 | V | | |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | 55 | 65 | V | | |
| Electrical Rating | Symbol | Condition | | Rating | Unit | |
| Average Rectified Output Current (resistive load) | I_O | P.C. Board mounted * | 180° rectangular wave conduction | $T_a = 14^\circ C$ | 1.1 | A |
| | | | 180° sinusoidal wave conduction | $T_a = 29^\circ C$ | 1.0 | |
| | | Without Fin, PCB. | | | $T_a = 28^\circ C$ | |
| | | | | | | |
| RMS Forward Current | $I_{F(RMS)}$ | | | 1.57 | A | |
| Peak One-cycle Forward Surge Current | I_{FSM} | 50Hz half sine wave, non-repetitive | | 25 | A | |
| Operating Junction Temperature Range | T_{jw} | | | -40 to 125 | °C | |
| Storage Temperature Range | T_{stg} | | | -40 to 125 | °C | |

ELECTRICAL & THERMAL CHARACTERISTICS

| Characteristics | Symbol | Test Condition | | Max. | Unit |
|---|---------------|---------------------------|--------------------|------|------|
| Peak Forward Voltage | V_{FM} | $I_{FM} = 1A$ | $T_j = 25^\circ C$ | 0.58 | V |
| Peak Reverse Current | I_{RM} | $V_{RM} = V_{RRM}$ | $T_j = 25^\circ C$ | 1.0 | mA |
| Thermal Resistance, junction to ambient | $R_{th(j-a)}$ | P.C. Board mounted * | | 110 | °C/W |
| | | Without Fin or P.C. Board | | 140 | |

* P.C. Board Print Land = 5x5mm

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

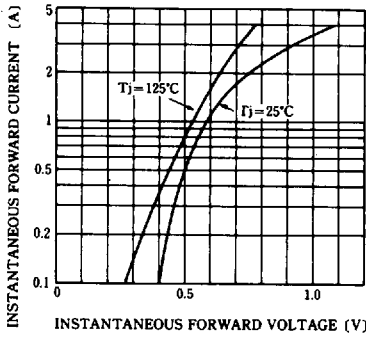


FIG.2-AVERAGE FORWARD POWER DISSIPATION

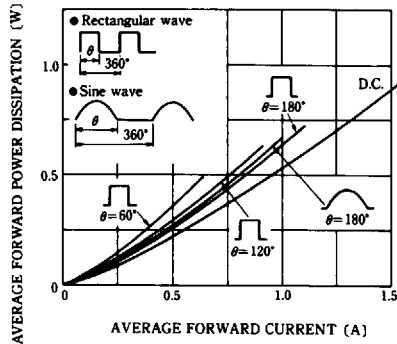


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

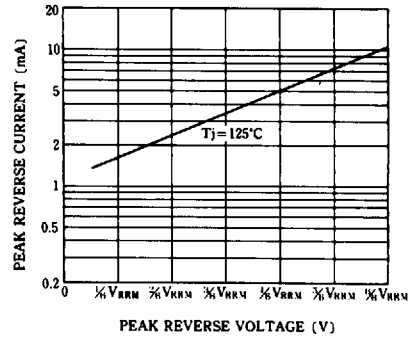


FIG.4-AVERAGE REVERSE POWER DISSIPATION (11EQS06) (11EQS05 IS FOR 83% RATED REVERSE POWER DISSIPATION)

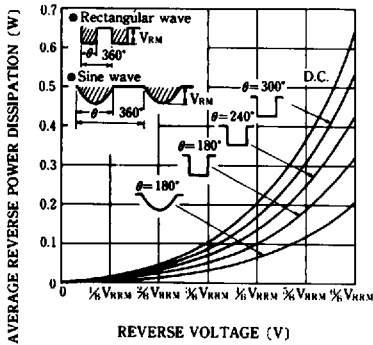


FIG.5-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

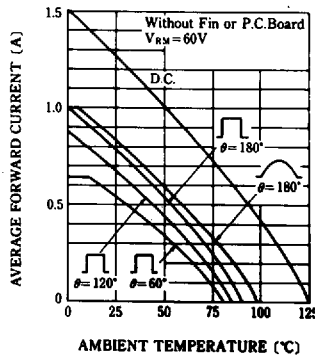


FIG.6-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

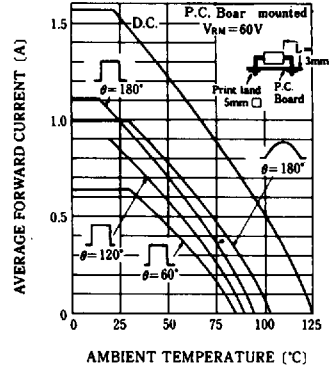


FIG.7-SURGE CURRENT RATINGS

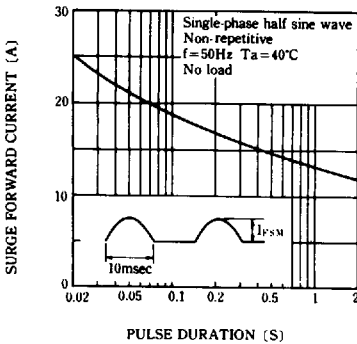


FIG.8-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

