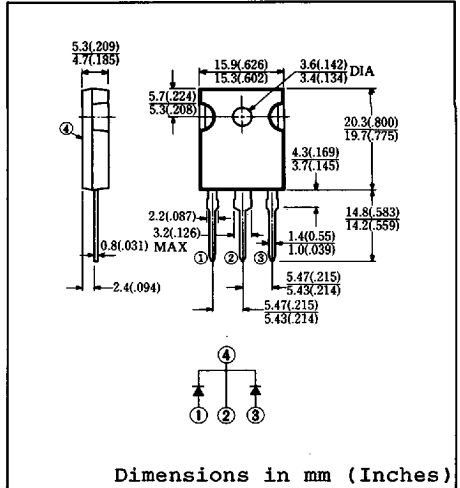


FEATURES

- Similar to TO-247AC (TO-3P) Case
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 30 Volts through 60 Volts Types Available



Dimensions in mm (Inches)
Approx. Net Weight : 5.55 Grams

MAXIMUM RATINGS

| Voltage Rating | TYPE | ◆ C60P03Q | C60P04Q | Unit | |
|--------------------------------------|--------------|--|---------|--------------|-----------------|
| | Symbol | | | | |
| Repetitive Peak Reverse Voltage | V_{RRM} | 30 | 40 | V | |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | 35 | 45 | V | |
| Electrical Rating | Symbol | Condition | | Rating | Unit |
| Average Rectified Output Current | I_O | Full rectangular wave conduction $T_C = 59^\circ C$ | | 66 | A |
| | | Full sinusoidal wave conduction $T_C = 72^\circ C$ | | 60 | |
| RMS Forward Current | $I_{F(RMS)}$ | | | 67 | A |
| Peak One-cycle Forward Surge Current | I_{FSM} | 50Hz full sine wave, non-repetitive | | 600 | A |
| Operating Junction Temperature Range | T_{jw} | | | -40 to 125 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | | | -40 to 125 | $^\circ C$ |
| Mounting Torque | F_{tor} | Recommended torque | | 0.5 (5.1) | N*m (kgf*cm) |

ELECTRICAL & THERMAL CHARACTERISTICS

| Characteristics | Symbol | Test Condition | Max. | Unit |
|----------------------|---------------|---|------|--------------|
| Peak Forward Voltage | V_{FM} | $I_{FM} = 30A$ $T_j = 25^\circ C$ per diode leg | 0.55 | V |
| Peak Reverse Current | I_{RM} | $V_{RM} = V_{RRM}$ $T_j = 25^\circ C$ per diode leg | 25 | mA |
| Thermal Resistance | $R_{th(j-c)}$ | Junction to Case | 1.0 | $^\circ C/W$ |

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

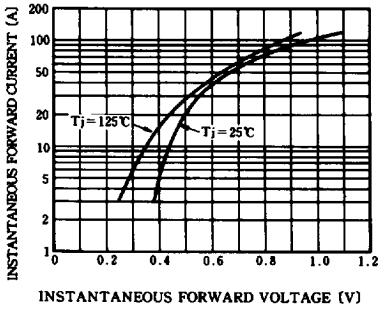


FIG.2-AVERAGE FORWARD POWER DISSIPATION

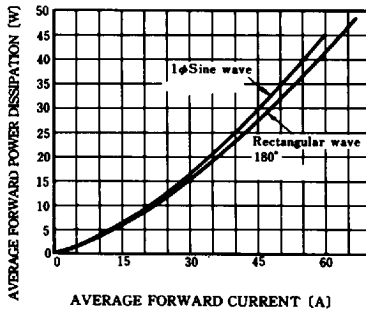


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

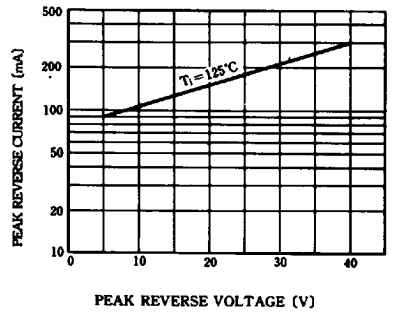


FIG.4-AVERAGE REVERSE POWER DISSIPATION

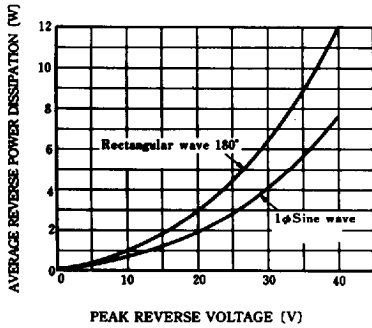


FIG.5-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

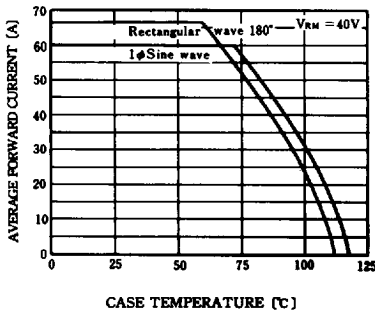


FIG.8-SURGE CURRENT RATINGS

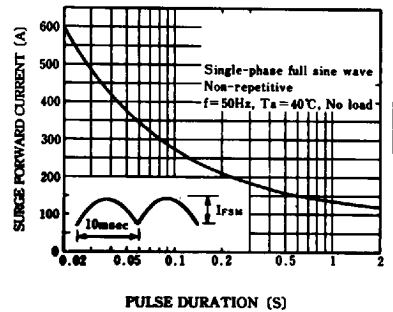
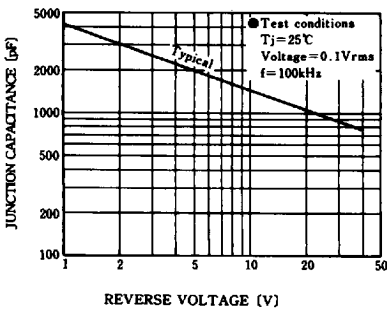


FIG.7-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE



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