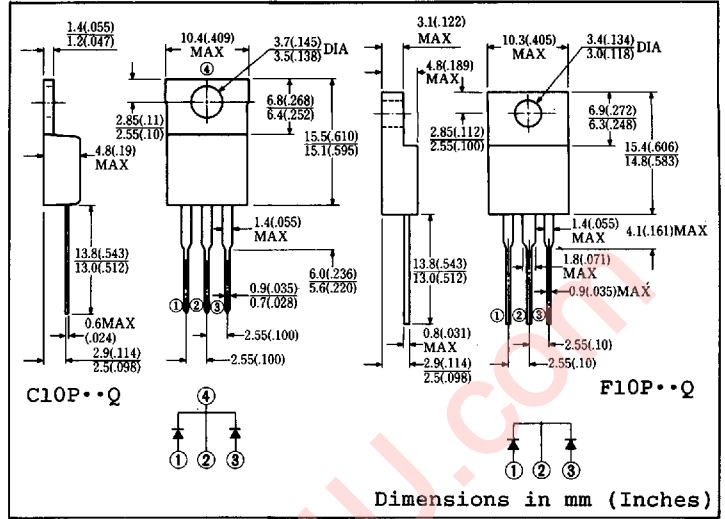


#### FEATURES

- Similar to TO-220AB Case
- Fully Molded Isolation (F-Type)
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 20 Volts thru 100 Volts Types Available



#### MAXIMUM RATINGS

| Voltage Rating                       | TYPE<br>Symbol      | ◆ C10P05Q<br>◆ F10P05Q                                    | C10P06Q<br>F10P06Q | Unit         |                 |
|--------------------------------------|---------------------|-----------------------------------------------------------|--------------------|--------------|-----------------|
| Repetitive Peak Reverse Voltage      | V <sub>RRM</sub>    | 50                                                        | 60                 | v            |                 |
| Non-Repetitive Peak Reverse Voltage  | V <sub>RSM</sub>    | 55                                                        | 65                 | v            |                 |
| Electrical Rating                    | Symbol              | Condition                                                 |                    | Rating       | Unit            |
| Average Rectified Output Current     | I <sub>O</sub>      | Full rectangular wave conduction<br>T <sub>C</sub> = 91°C |                    | 11           | A               |
|                                      |                     | Full sinusoidal wave conduction<br>T <sub>C</sub> = 98°C  |                    | 10           |                 |
| RMS Forward Current                  | I <sub>F(RMS)</sub> |                                                           |                    | 11           | A               |
| Peak One-cycle Forward Surge Current | I <sub>FSM</sub>    | 50Hz full sine wave, non-repetitive                       |                    | 110          | A               |
| Operating Junction Temperature Range | T <sub>jw</sub>     |                                                           |                    | -40 to 125   | °C              |
| Storage Temperature Range            | T <sub>stg</sub>    |                                                           |                    | -40 to 125   | °C              |
| Mounting Torque                      | F <sub>tor</sub>    | Recommended torque                                        |                    | 0.5<br>(5.1) | N•m<br>(kgf•cm) |

#### ELECTRICAL & THERMAL CHARACTERISTICS

| Characteristics      | Symbol        | Test Condition                                              | Max. | Unit               |
|----------------------|---------------|-------------------------------------------------------------|------|--------------------|
| Peak Forward Voltage | $V_{FM}$      | $I_{FM} = 5\text{A}$ $T_j = 25^\circ\text{C}$ per diode leg | 0.58 | V                  |
| Peak Reverse Current | $I_{RM}$      | $V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$ per diode leg   | 5    | mA                 |
| Thermal Resistance   | $R_{th(j-c)}$ | Junction to Case                                            | 3    | $^\circ\text{C/W}$ |
|                      | $R_{th(c-f)}$ | Case to Fin for F10P05Q Type                                | 1.5  |                    |

◆ For spare parts only

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