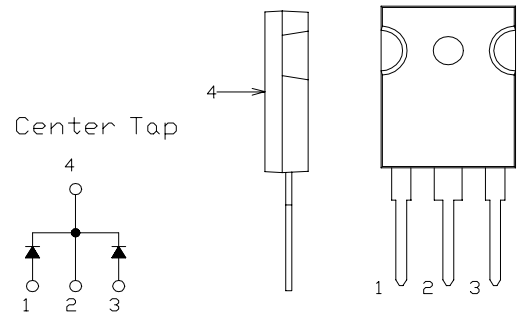


# FRD Type : KCF25A40

## OUTLINE DRAWING

### FEATURES

- \* Similar to TO-247AC (TO-3P) Case
- \* Dual Diodes – Cathode Common
- \* Ultra – Fast Recovery
- \* Low Forward Voltage Drop
- \* High Surge Capability
- \* 200 Volts thru 400 Volts Types Available



### Maximum Ratings

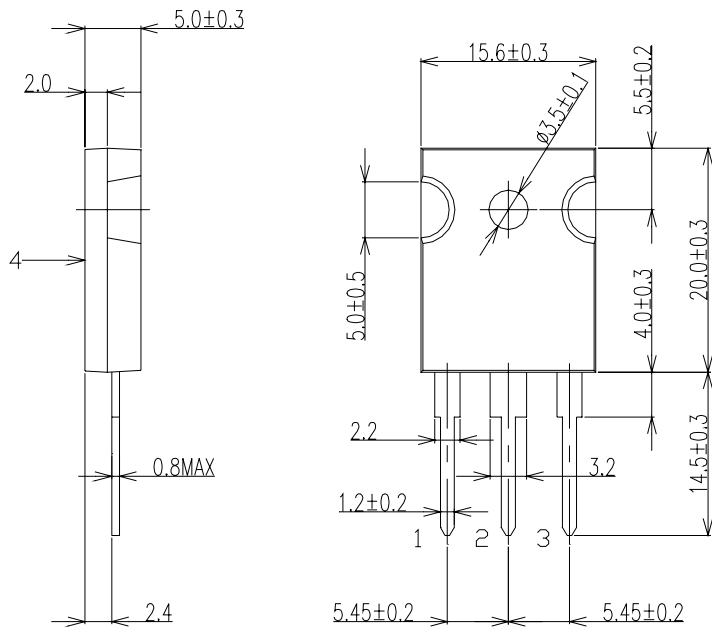
Approx Net Weight:5.55g

| Rating                               | Symbol       | KCF25A40      |   | Unit             |
|--------------------------------------|--------------|---------------|---|------------------|
| Repetitive Peak Reverse Voltage      | $V_{RRM}$    | 400           |   | V                |
| Non-repetitive Peak Reverse Voltage  | $V_{RSM}$    | 440           |   | V                |
| Average Rectified Output Current     | $I_O$        | 25            | $T_c=85^\circ\text{C}$ 50 Hz, Full Sine Wave Resistive Load | A                |
| RMS Forward Current                  | $I_{F(RMS)}$ | 28            |   | A                |
| Surge Forward Current                | $I_{FSM}$    | 150           | 50 Hz Full Sine Wave, 1 cycle Non-repetitive                | A                |
| Operating Junction Temperature Range | $T_{jw}$     | - 40 to + 150 |   | $^\circ\text{C}$ |
| Storage Temperature Range            | $T_{stg}$    | - 40 to + 150 |   | $^\circ\text{C}$ |
| Mounting torque                      |              | 0.5           | Recommended value   | N·m              |

### Electrical • Thermal Characteristics

| Characteristics       | Symbol        | Conditions  | Min. | Typ. | Max. | Unit                      |
|-----------------------|---------------|---|------|------|------|---------------------------|
| Peak Reverse Current  | $I_{RM}$      | $T_j=25^\circ\text{C}$ , $V_{RM}=V_{RRM}$ per Arm                                   | -    | -    | 50   | $\mu\text{A}$             |
| Peak Forward Voltage  | $V_{FM}$      | $T_j=25^\circ\text{C}$ , $I_{FM}=12.5\text{A}$ per Arm                              | -    | -    | 1.25 | V                         |
| Reverse Recovery Time | $t_{rr}$      | $I_{FM}=10\text{A}$ ,<br>$-di/dt= 50\text{A}/\mu\text{s}$ , $T_a= 25^\circ\text{C}$ | -    | -    | 50   | ns                        |
| Thermal Resistance    | $R_{th(j-c)}$ | Junction to Case  | -    | -    | 2    | $^\circ\text{C}/\text{W}$ |

KCF25A40 OUTLINE DRAWING (Dimensions in mm)



Center Tap

