

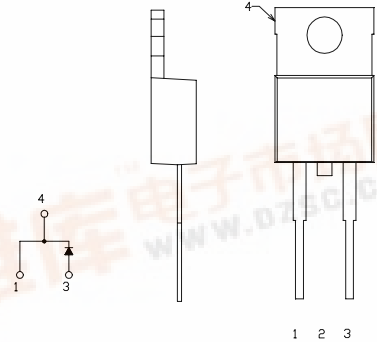


FRD Type : GSF10A20

OUTLINE DRAWING

FEATURES

- * Similar to TO-220AB Case
- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 200 Volts thru 600 Volts Types Available



Maximum Ratings

Approx Net Weight:1.85g

| Rating | Symbol | GSF10A20 | | Unit |
|--------------------------------------|--------------|---------------|--|-------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 200 | | V |
| Non-repetitive Peak Reverse Voltage | V_{RSM} | 220 | | |
| Average Rectified Output Current | I_O | 10 | $T_c=100^{\circ}C$ 50 Hz Half Sine Wave Resistive Load | A |
| RMS Forward Current | $I_{F(RMS)}$ | 15.7 | | A |
| Surge Forward Current | I_{FSM} | 120 | 50 Hz Half Sine Wave, 1cycle Non-repetitive | A |
| Operating Junction Temperature Range | T_{jw} | - 40 to + 150 | | $^{\circ}C$ |
| Storage Temperature Range | T_{stg} | - 40 to + 150 | | $^{\circ}C$ |
| Mounting torque | | 0.5 | Recommended value | N·m |

Electrical • Thermal Characteristics

| Characteristics | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|-----------------------|---------------|---|------|------|------|---------------|
| Peak Reverse Current | I_{RM} | $T_j= 25^{\circ}C, V_{RM}= V_{RRM}$ | - | - | 25 | μA |
| Peak Forward Voltage | V_{FM} | $T_j= 25^{\circ}C, I_{FM}= 10A$ | - | - | 1.03 | V |
| Reverse Recovery Time | t_{rr} | $I_{FM}= 10A, -di/dt= 50 A/\mu s, T_a= 25^{\circ}C$ | - | - | 35 | ns |
| Thermal Resistance | $R_{th(j-c)}$ | Junction to Case | - | - | 4 | $^{\circ}C/W$ |



GSF10A20 OUTLINE DRAWING (Dimensions in mm)

