

YG902C2R

(200V / 10A TO-220F15)

LOW LOSS SUPER HIGH SPEED DIODE

Features

- Low V_F
- Super high speed switching.
- High reliability by planer design.

Applications

High speed power switching

Maximum Ratings and Characteristics

- Absolute Maximum Ratings

| Item | Symbol | Conditions | Rating | Unit |
|---------------------------------------|-----------|--|-------------|------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | | 200 | V |
| Repetitive Peak Surge Reverse Voltage | V_{RSM} | | 200 | V |
| Isolation Voltage | V_{iso} | Terminals to Case, AC, 1min. | 1500 | V |
| Average Output Current | I_o | duty=1/2, $T_c=115^\circ\text{C}$ Square wave | 10* | A |
| Surge Current | I_{FSM} | Sine wave 10ms | 50 | A |
| Operating Junction Temperature | T_j | | -40 to +150 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | | -40 to +150 | $^\circ\text{C}$ |

* Out put current of centertap full wave connection.

- Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

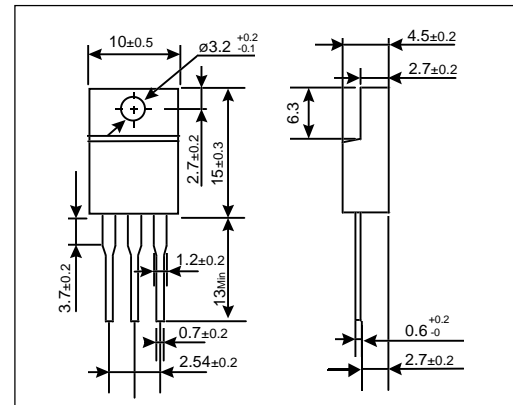
| Item | Symbol | Conditions | Max. | Unit |
|-------------------------|---------------|--|------|--------------------|
| Forward Voltage Drop ** | V_F | $I_F=5\text{A}$ | 0.95 | V |
| Reverse Current ** | I_R | $V_R=V_{RRM}$ | 100 | μA |
| Reverse recovery time | t_{rr} | $I_F=0.1\text{A}, I_R=0.2\text{A}, I_{rec}=0.05\text{A}$ | 35 | ns |
| Thermal Resistance | $R_{th(j-c)}$ | Junction to case | 3.5 | $^\circ\text{C/W}$ |

** Rating per element

- Mechanical Characteristics

| | | | |
|-----------------|--------------------|------------|-------|
| Mounting torque | Recommended torque | 0.3 to 0.5 | N · m |
| Weight | | 2.3 | g |

Outline Drawings

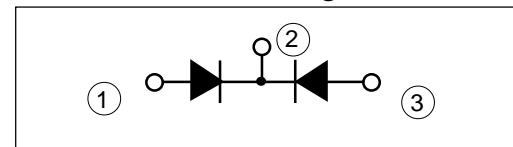


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Connection Diagram



■ Characteristics

