

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)

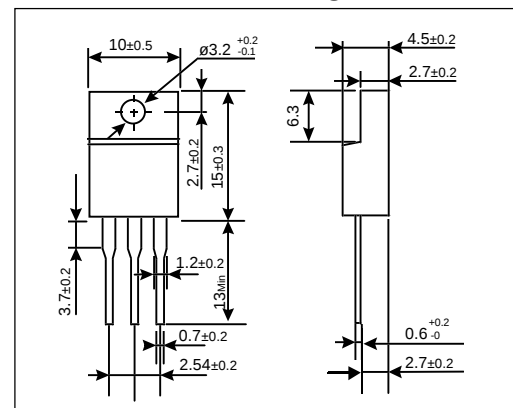
Item	Symbol	Conditions	Max.	Unit
Forward Voltage Drop **	V_F	$I_F=5\text{A}$	0.95	V
Reverse Current **	I_R	$V_R=V_{RRM}$	100	μA
Reverse recovery time	t_{rr}	$I_F=0.1\text{A}, I_R=0.2\text{A}, I_{rec}=0.05\text{A}$	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to case	3.5	$^{\circ}\text{C/W}$

** Rating per element

- Mechanical Characteristics

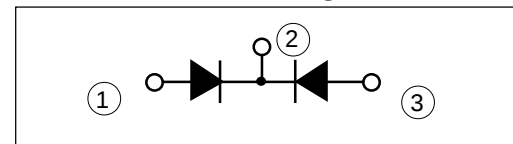
Mounting torque	Recommended torque	0.3 to 0.5	N · m
Weight		2.3	g

Outline Drawings



JEDEC	
•EIAJ	SC-67

Connection Diagram



Characteristics