

YG912S2R

(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, $T_c=116^\circ\text{C}$ Rectangl wave	10	A
Surge current	I_{FSM}	Sine wave 10ms	80	A
Operating junction temperature	T_j		-40 to +150	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

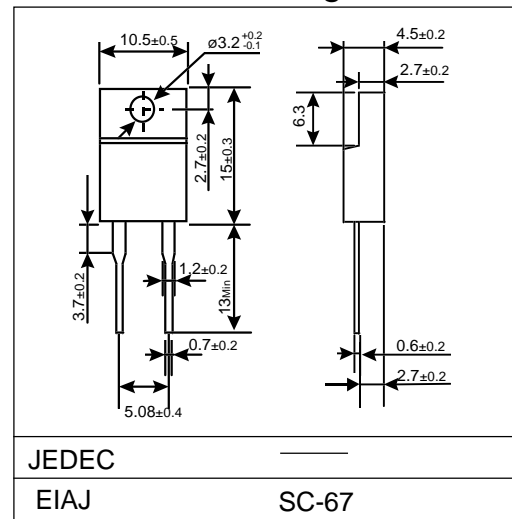
- Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_F	$I_F=10\text{A}$	0.98	V
Reverse current	I_R	$V_R=V_{RRM}$	200	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	$^\circ\text{C/W}$

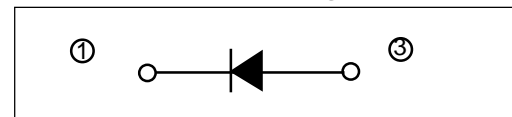
- Mechanical Characteristics

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

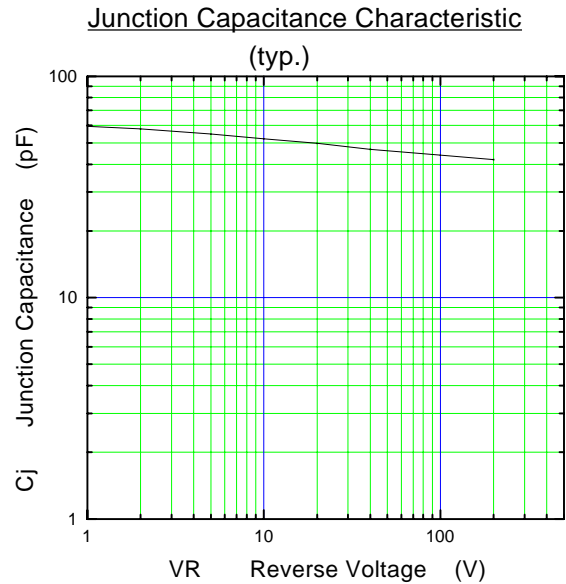
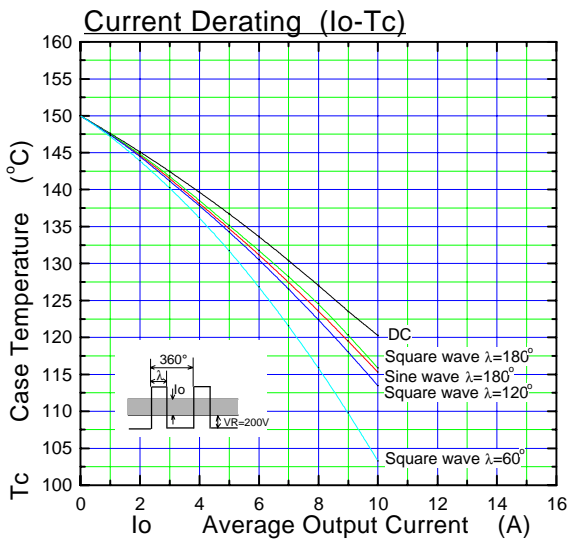
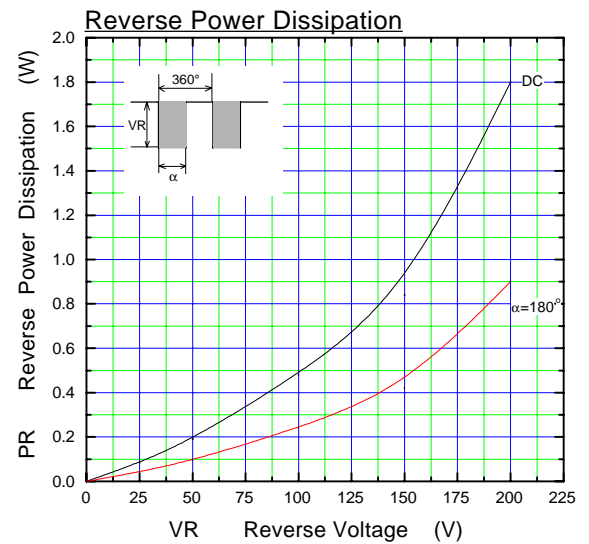
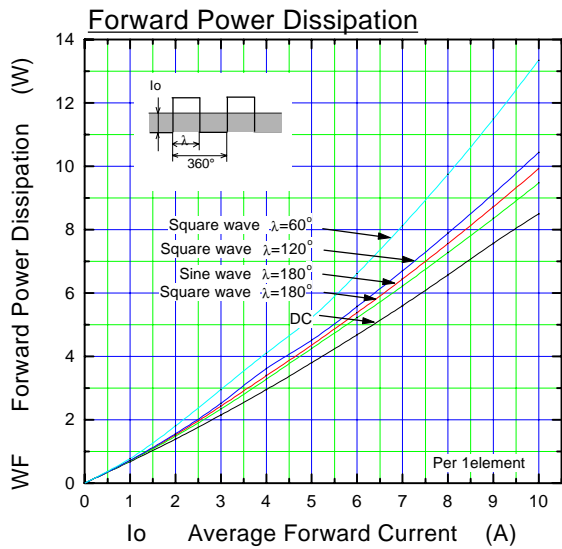
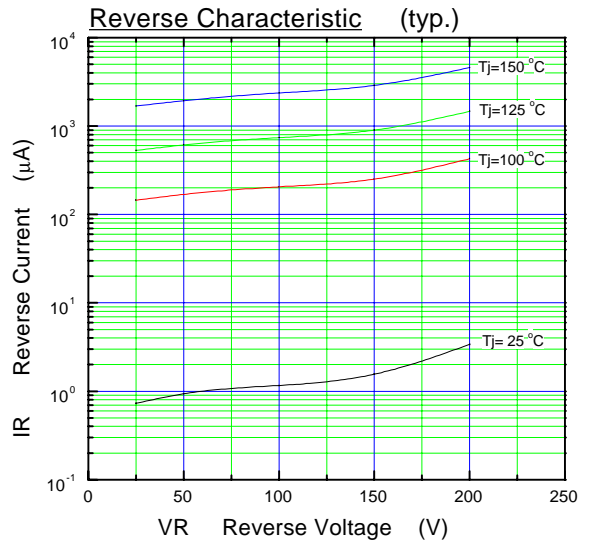
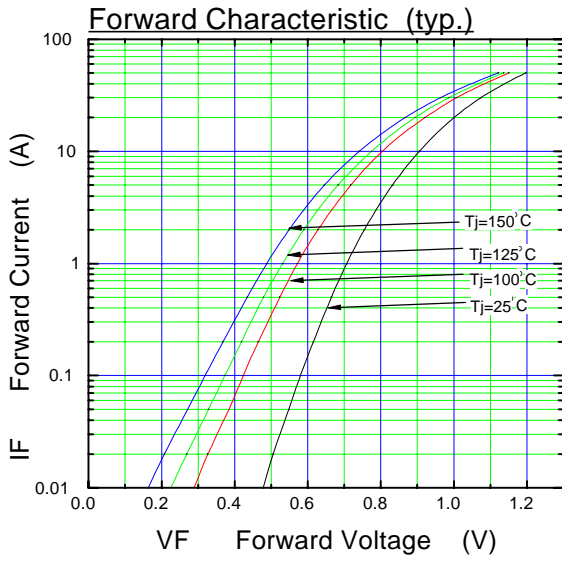
Outline Drawings



Connection Diagram



■ Characteristics



λ: Conduction angle of forward current for each rectifier element
 Io: Output current of center-tap full wave connection

