

# YG901C2R

## L L D (200V / 5A 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, $T_c=120^{\circ}C$ Square wave	5*	A
Surge current	$I_{FSM}$	Sine wave 10ms	25	A
Operating junction temperature	$T_j$		-40 to +150	$^{\circ}C$
Storage temperature	$T_{stg}$		-40 to +150	$^{\circ}C$

\* Out put current of centertap full wave connection.

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

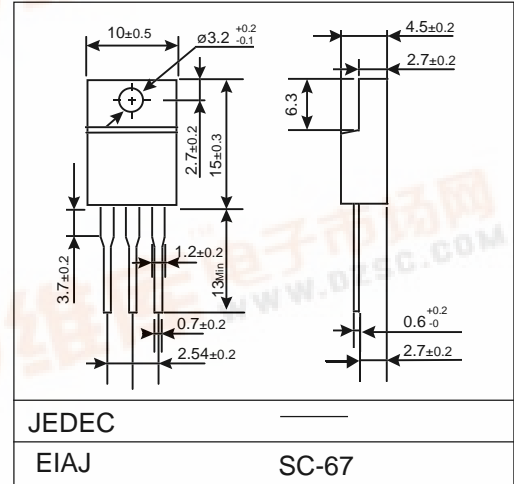
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	$V_F$	$I_F=2.5A$	0.95	V
Reverse current **	$I_R$	$V_R=V_{RRM}$	100	$\mu A$
Reverse recovery time	$t_{rr}$	$I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	$^{\circ}C/W$

\*\* Rating per element

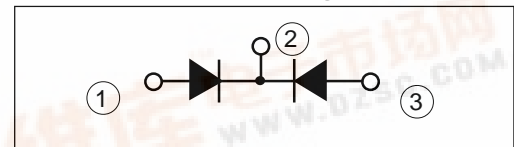
- Mechanical Characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N · m
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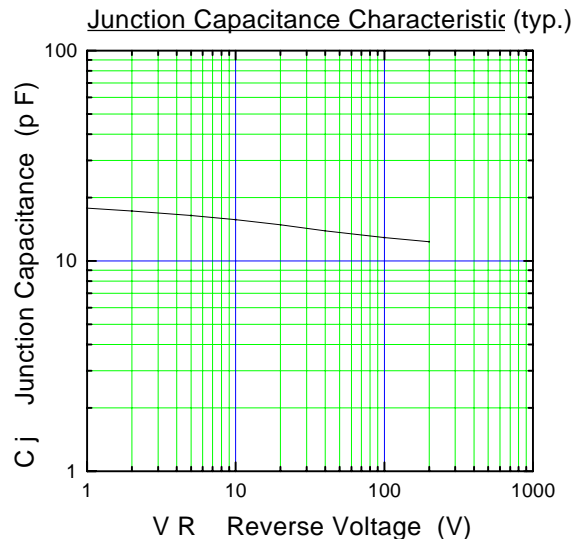
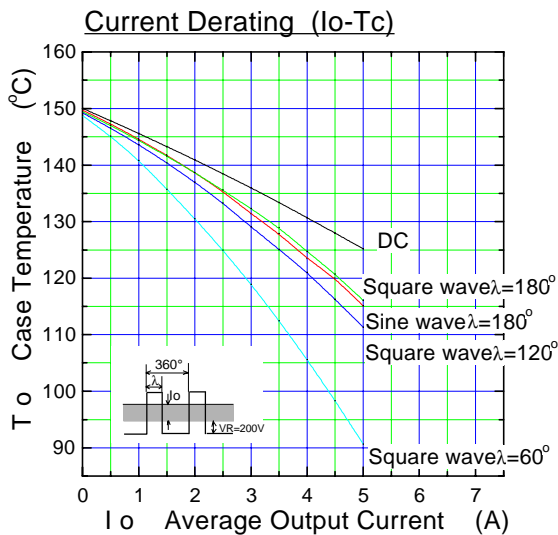
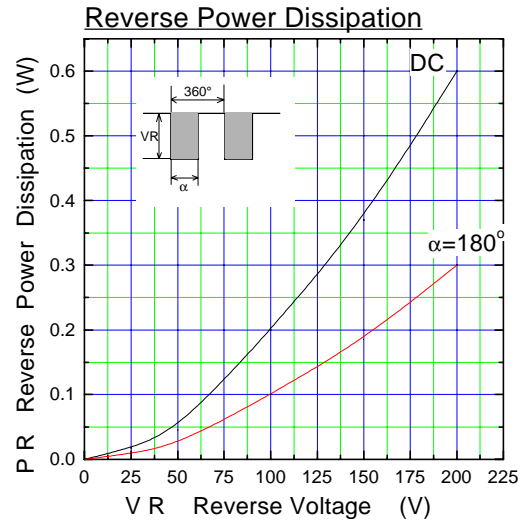
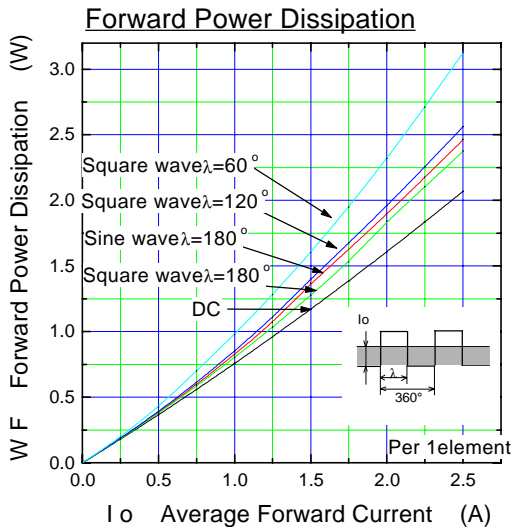
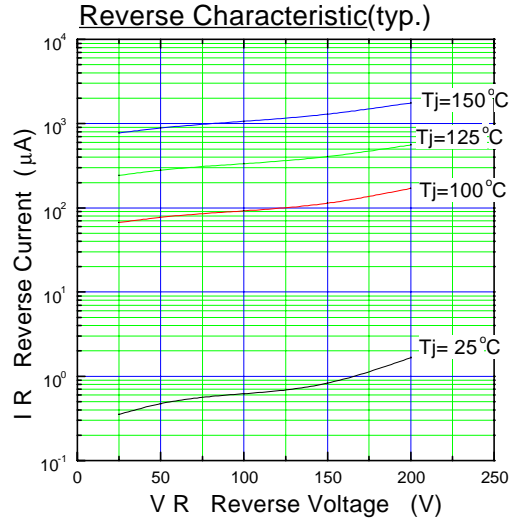
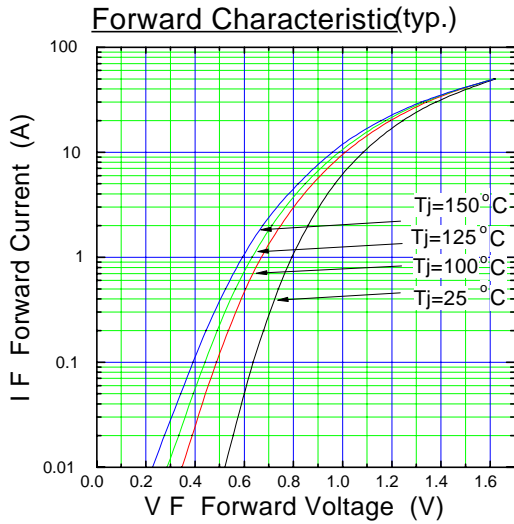
#### Outline Drawings



#### Connection Diagram

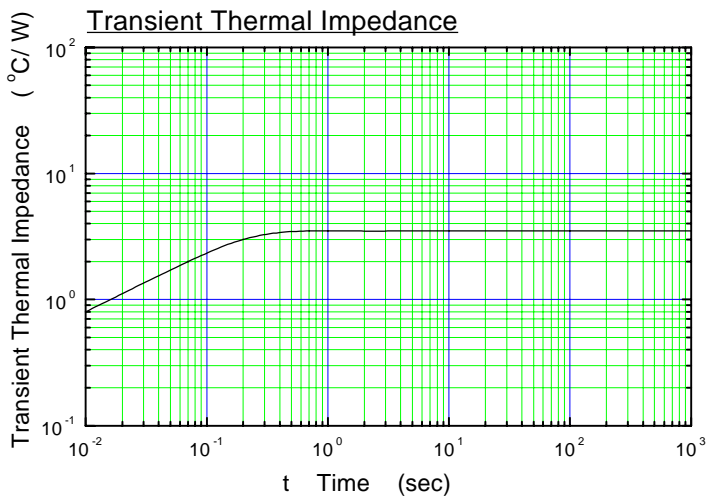
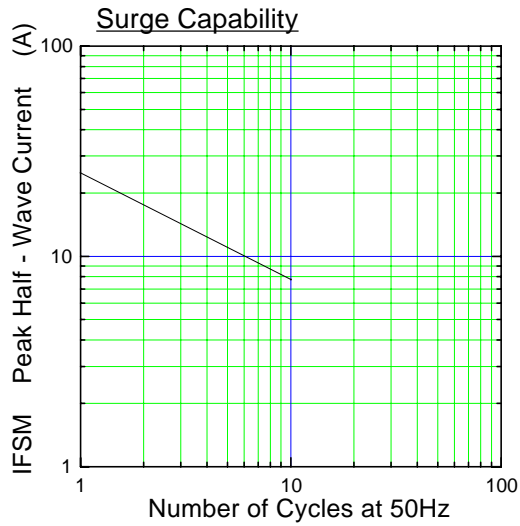


■ Characteristics



λ: Conduction angle of forward current for each rectifier element

I<sub>o</sub>: Output current of center-tap full wave connection



**DERATING**

