

# YG906C2R

L L D (200V / 20A 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	$V_{RSM}$	$t_w=500ns, duty=1/40$	200	V
Isolation voltage	$V_{iso}$	Terminals to Case, AC, 1min.	1500	V
Average output current	$I_o$	$duty=1/2, T_c=102^{\circ}C$ Square wave	20*	A
Surge current	$I_{FSM}$	Sine wave 10ms	80	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 )

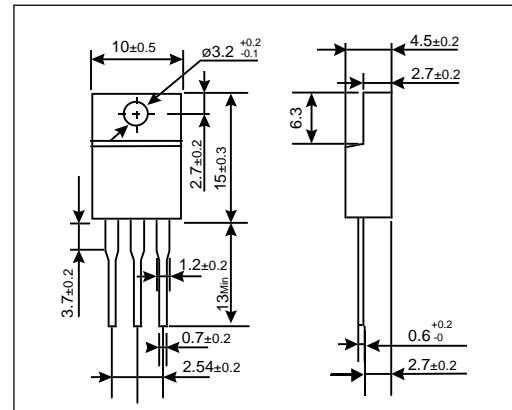
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	$V_F$	$I_F=10A$	0.98	V
Reverse current **	$I_R$	$V_R=V_{RRM}$	200	$\mu A$
Reverse recovery time	$t_{rr}$	$I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$	40	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.5	$^{\circ}C/W$

\*\* Rating per element

- Mechanical Characteristics

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

### Outline Drawings

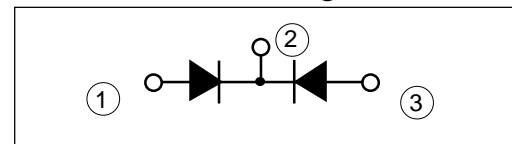


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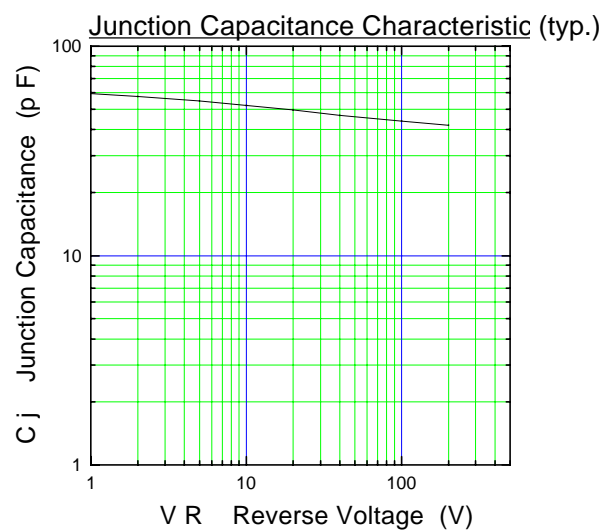
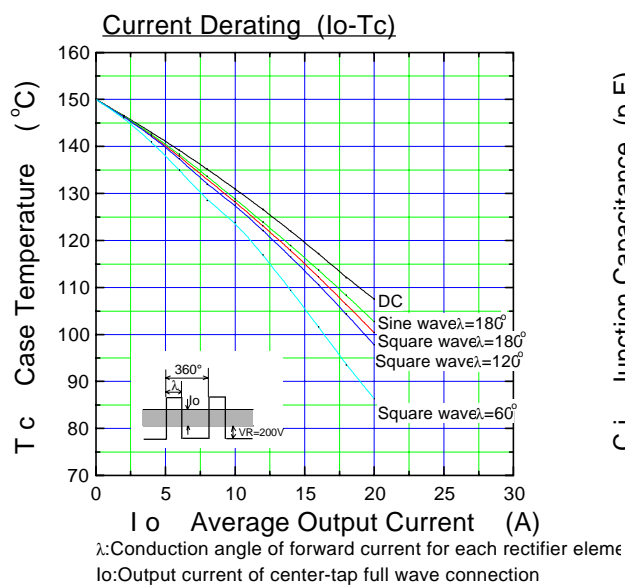
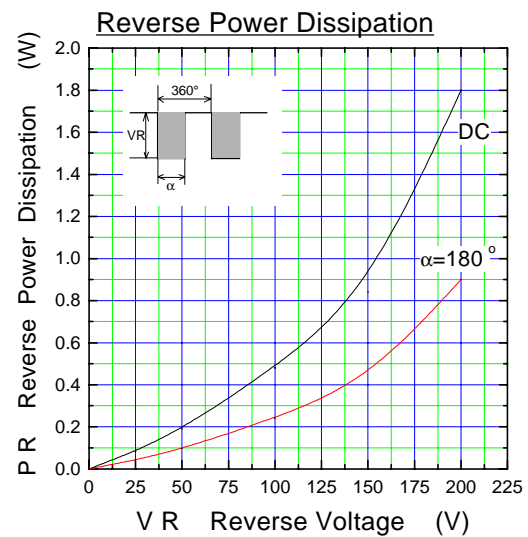
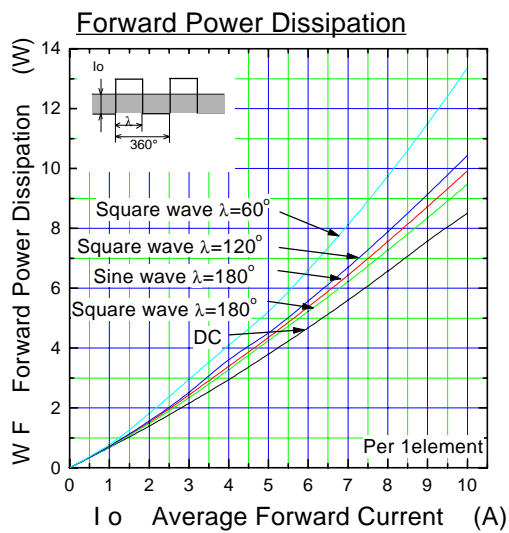
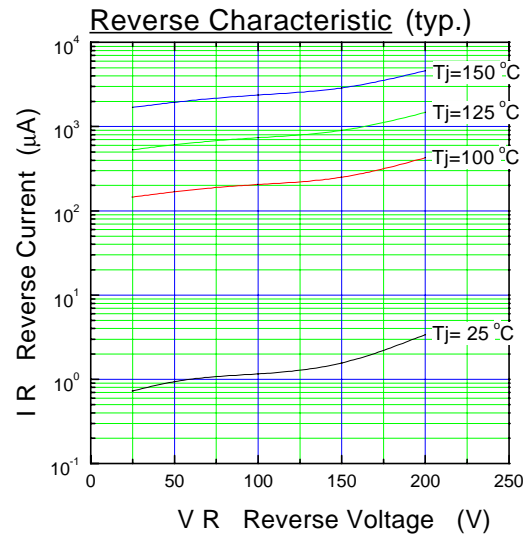
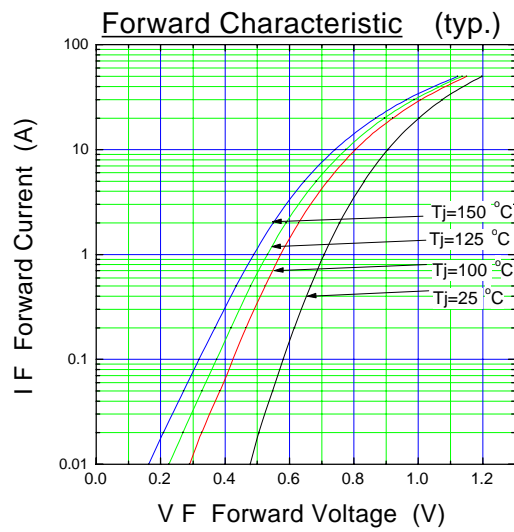
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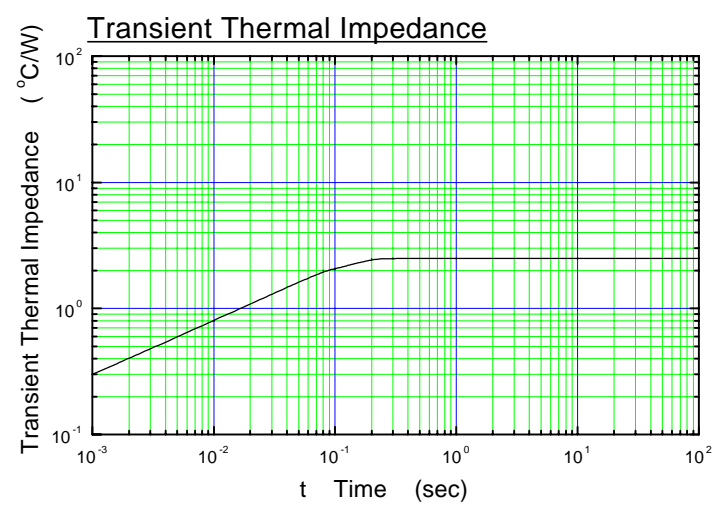
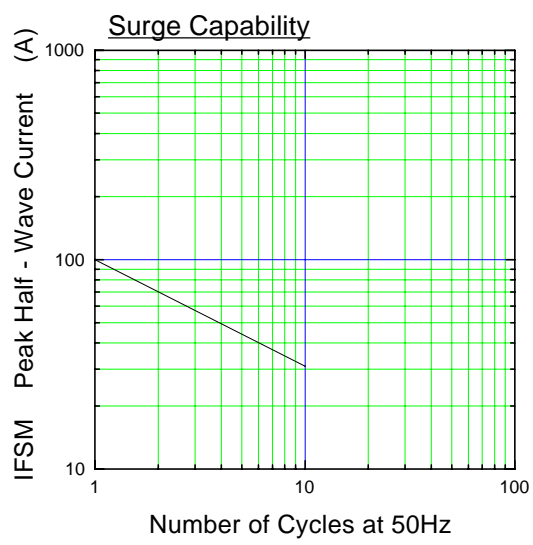
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### Connection Diagram



## Characteristics





**DERATING**

