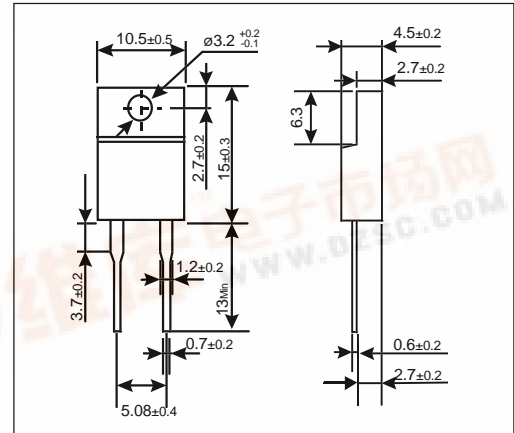


# YG811S09R

(90V / 5A TO-220F15)

## SCHOTTKY BARRIER DIODE

### Outline Drawings



JEDEC	—
EIAJ	SC-67

### Features

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

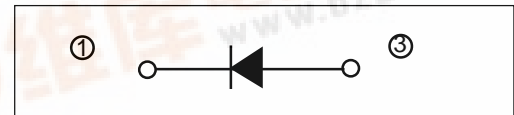
### Applications

- High speed power switching.

### Maximum Ratings and Characteristics

- Absolute Maximum Ratings

### Connection Diagram



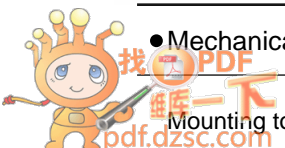
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		90	V
Repetitive peak surge reverse voltage	$V_{RSM}$	$t_w=500ns$ , $duty=1/40$	100	V
Isolating voltage	$V_{iso}$	Terminals to Case, AC, 1min.	1500	V
Average output current	$I_o$	$duty=1/2$ , $T_c=116^\circ C$ Rectangl wave	5	A
Suege 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	$^\circ C$

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

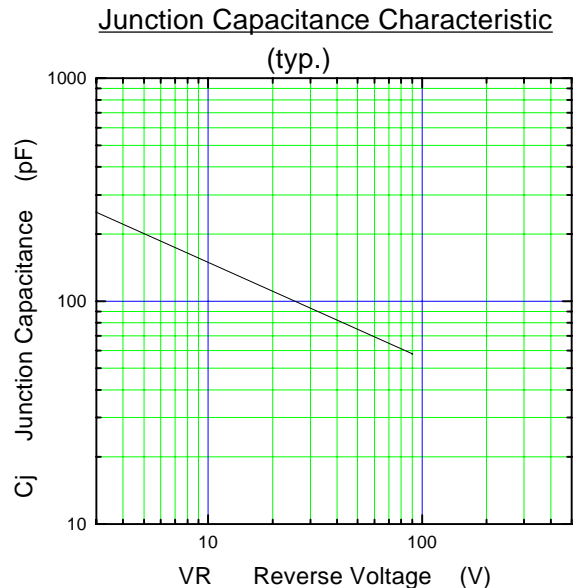
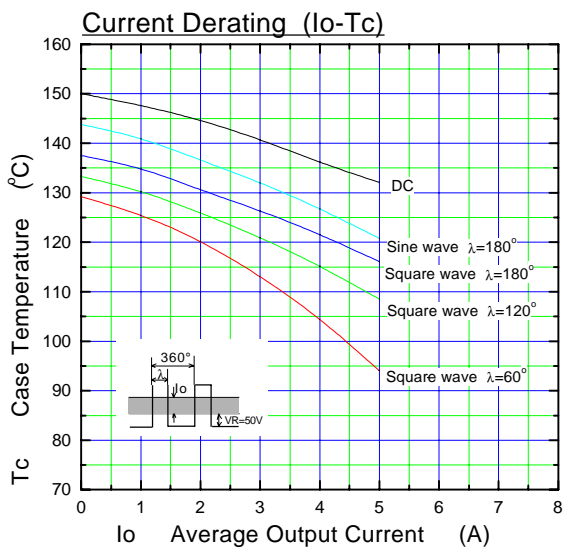
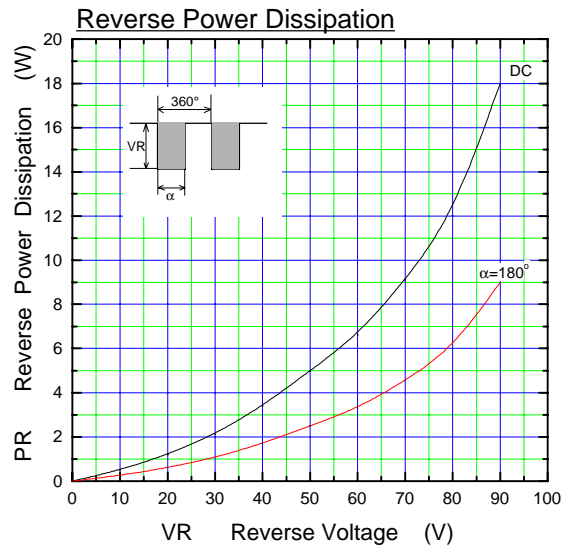
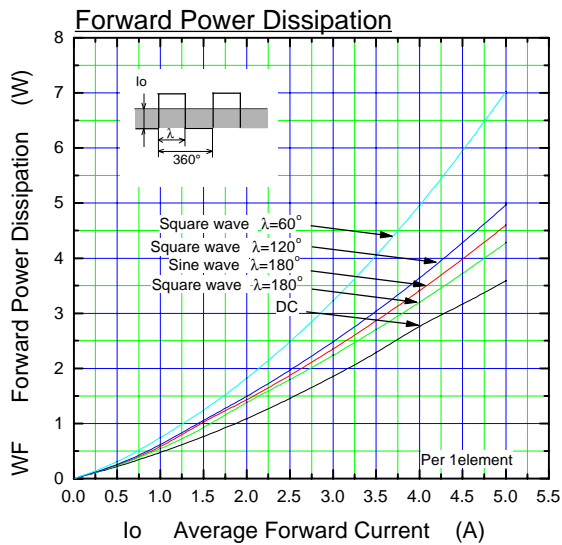
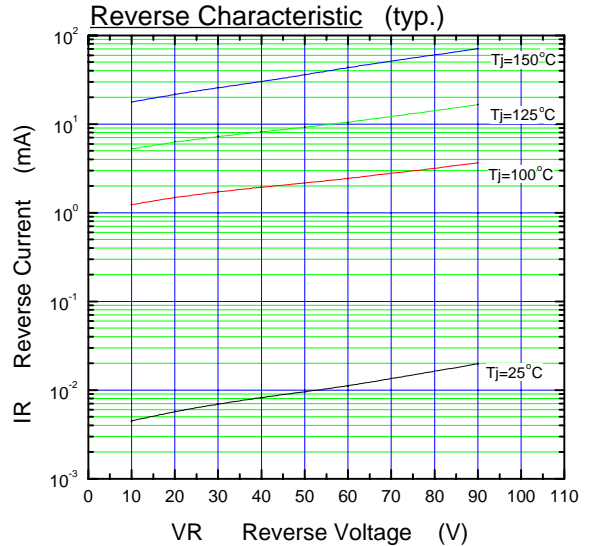
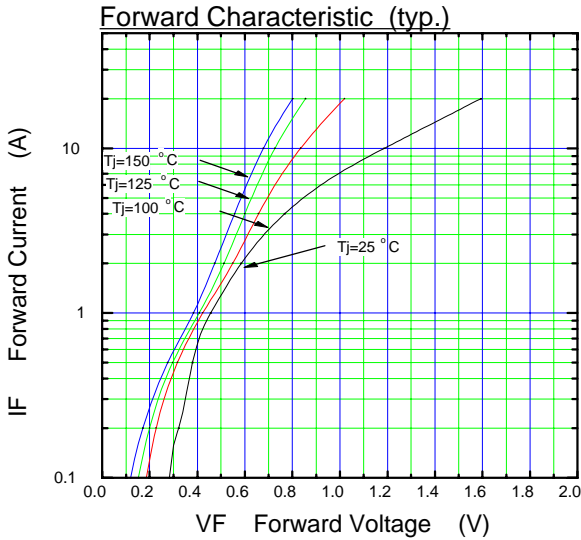
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_F$	$I_F=4.0A$	0.9	V
Reverse current	$I_R$	$V_R=V_{RRM}$	5.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0	$^\circ C/W$

- Mechanical Characteristics

Item	Symbol	Conditions	Max.	Unit
Mounting torque		Recommended torque	0.3 to 0.5	N · m



■ Characteristics



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

