

# YG912S6 (10A)

(600V / 10A )

## LOW LOSS SUPER HIGH SPEED RECTIFIER

### ■ Features

- Insulated package by fully molding
- Low VF
- Super high speed switching
- High reliability by planer design

### ■ Applications

- High speed power switching
- Active filter circuit

### ■ Maximum ratings and characteristics

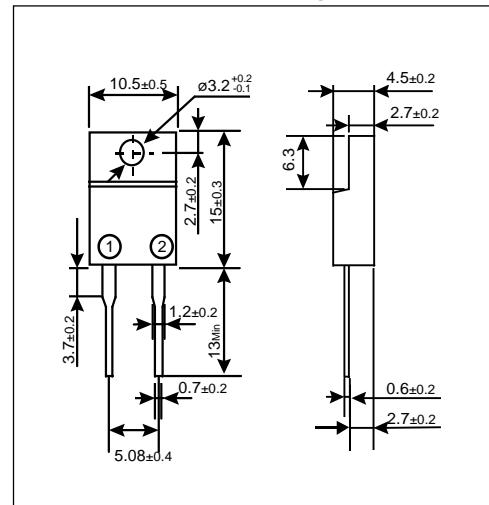
#### • Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	V
Non-Repetitive peak reverse voltage	V <sub>RSM</sub>		600	V
Average output current	I <sub>O</sub>	duty=1/2, T <sub>c</sub> =92°C Square wave	10	A
Surge current	I <sub>FSM</sub>	Sine wave 10ms	80	A
Operating junction temperature	T <sub>j</sub>		-40 to +150	°C
Storage temperature	T <sub>stg</sub>		-40 to +150	°C

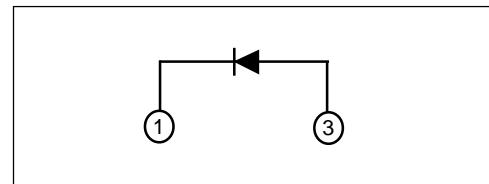
#### • Electrical characteristics (Ta=25°C Unless otherwise specified )

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V <sub>FM</sub>	I <sub>FM</sub> =10A	1.7	V
Reverse current	I <sub>RRM</sub>	V <sub>R</sub> =V <sub>RRM</sub>	500	µA
Reverse recovery time	t <sub>rr</sub>	I <sub>f</sub> =0.1A, I <sub>R</sub> =0.2A, I <sub>rec</sub> =0.05A	50	ns
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	3.5	°C/W

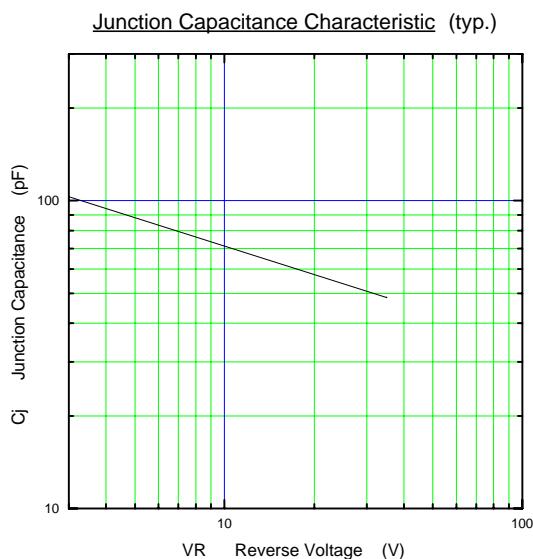
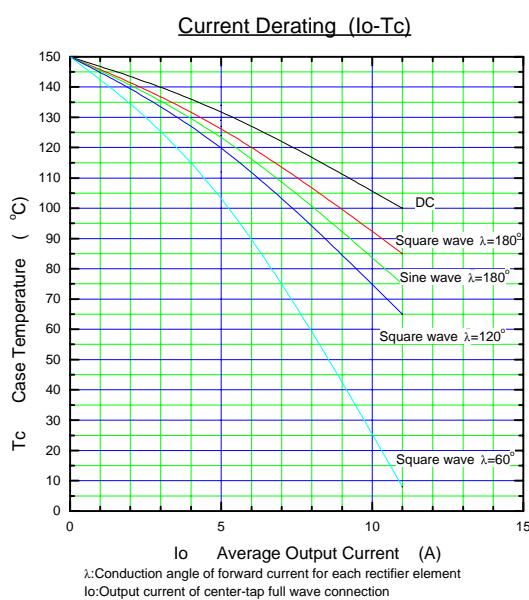
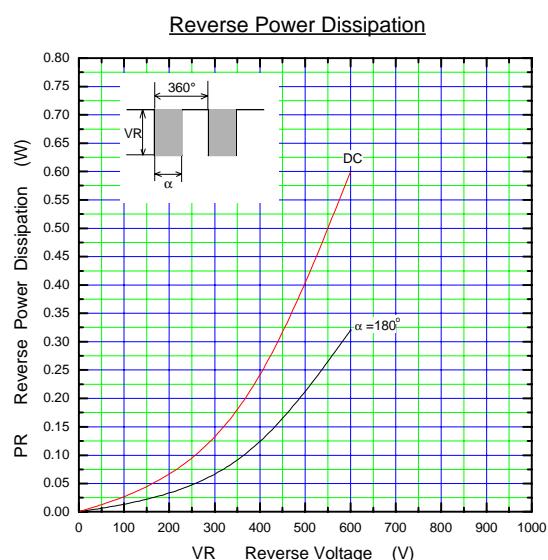
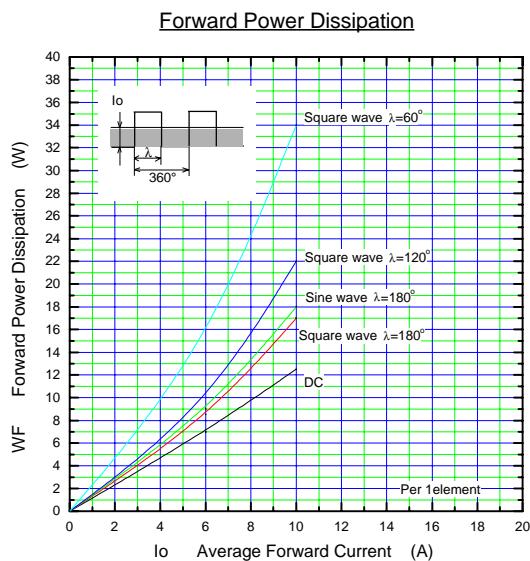
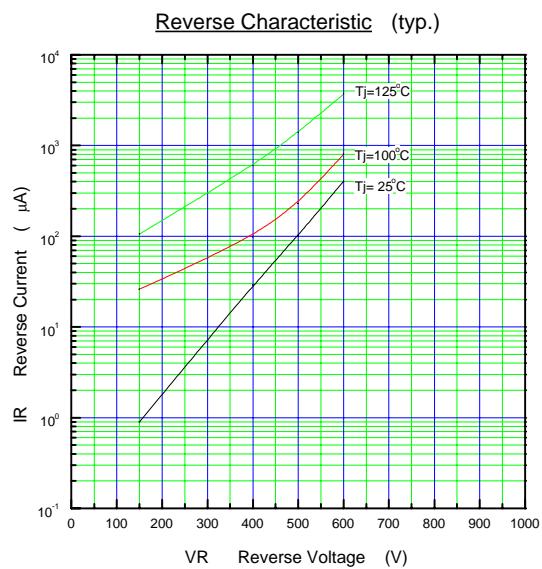
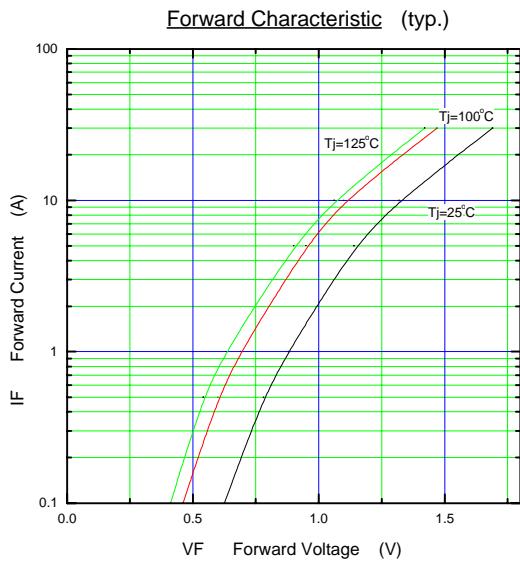
### ■ Outline drawings, mm



### ■ Connection diagram



## ■ Characteristics



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