

# YG121S15 (5A)

(1500V / 5A)

## LOW LOSS SUPER HIGH SPEED RECTIFIER

### Features

- Insulated package by fully molding
- Most suitable for color T.V. damper
- High voltage by mesa design
- High reliability

### Applications

- High speed power switching

### Maximum ratings and characteristics

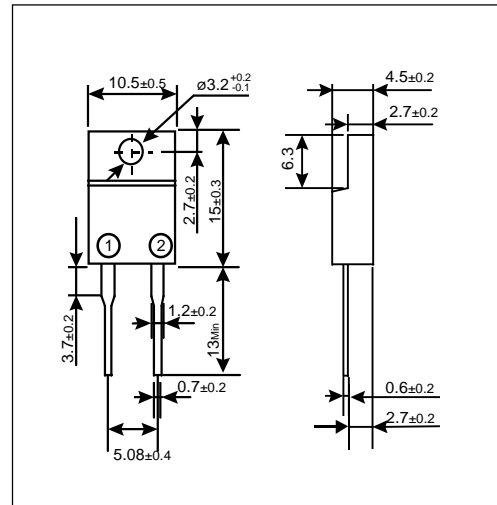
- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		1500	V
Non-Repetitive peak reverse voltage	$V_{RSM}$		1500	V
Average output current	$I_o$	duty=1/2, $T_c=88^{\circ}\text{C}$ Square wave	5	A
Surge current	$I_{FSM}$	Sine wave 10ms	50	A
Operating junction temperature	$T_j$		-40 to +150	$^{\circ}\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^{\circ}\text{C}$

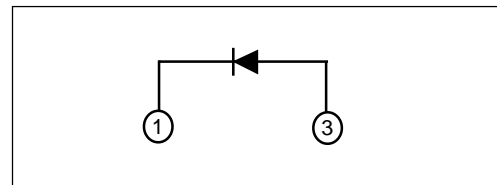
- Electrical characteristics ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=3.0\text{A}$	2.0	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	50	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.1\text{A}$ , $I_R=0.1\text{A}$	0.5	$\mu\text{s}$
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	$^{\circ}\text{C/W}$

### Outline drawings, mm

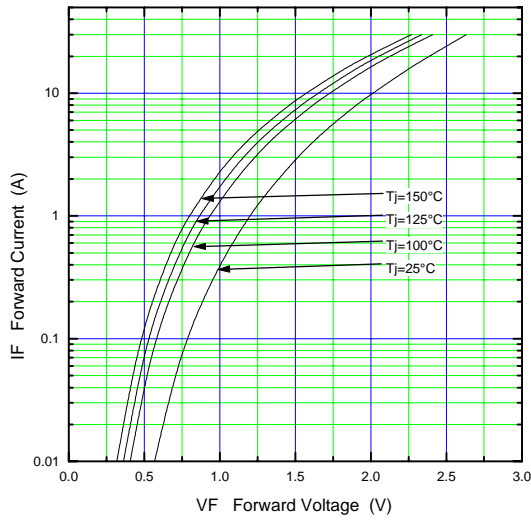


### Connection diagram

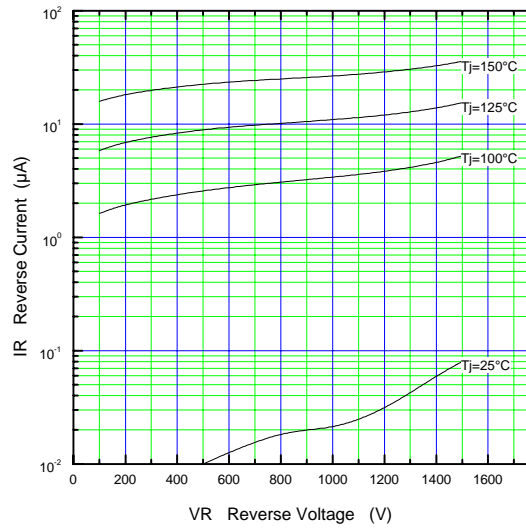


■ Characteristics

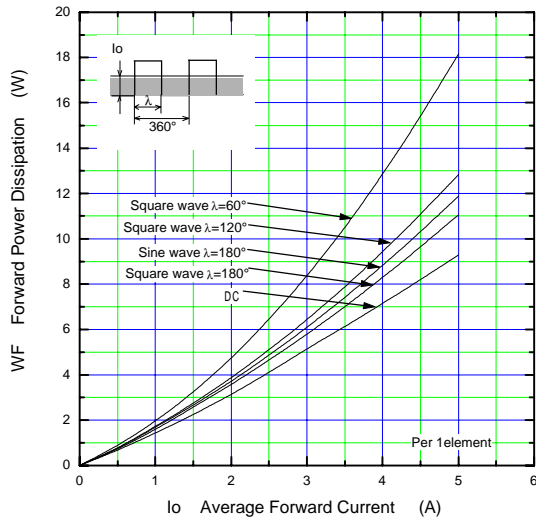
Forward Characteristic (typ.)



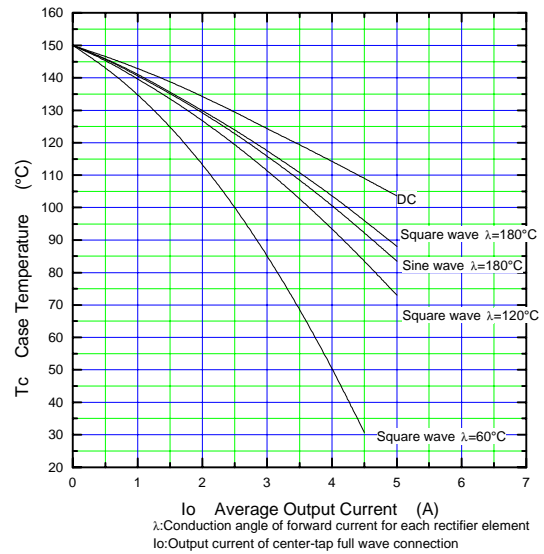
Reverse Characteristic (typ.)



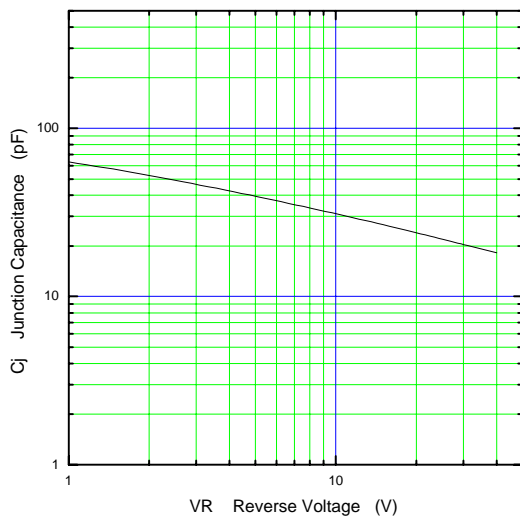
Forward Power Dissipation



Current Derating (I<sub>o</sub>-T<sub>c</sub>)



Junction Capacitance Characteristic (typ.)



Surge Capability

