

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

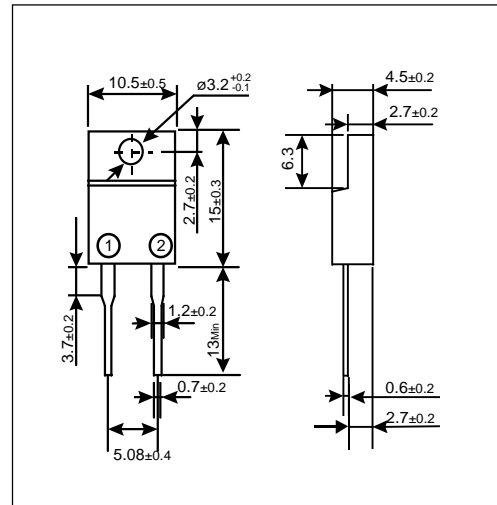
- Absolute maximum ratings

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	$^{\circ}\text{C}$

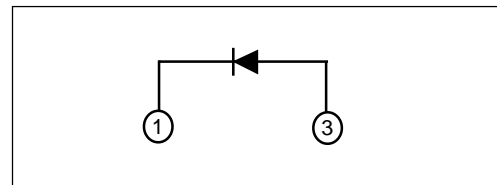
- Electrical characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

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	μA
Reverse recovery time	t_{rr}	$I_F=0.1\text{A}$, $I_R=0.1\text{A}$	0.5	μs
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	$^{\circ}\text{C/W}$

Outline drawings, mm

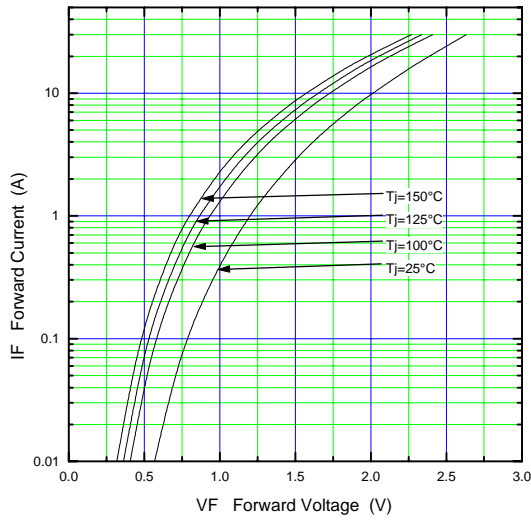


Connection diagram

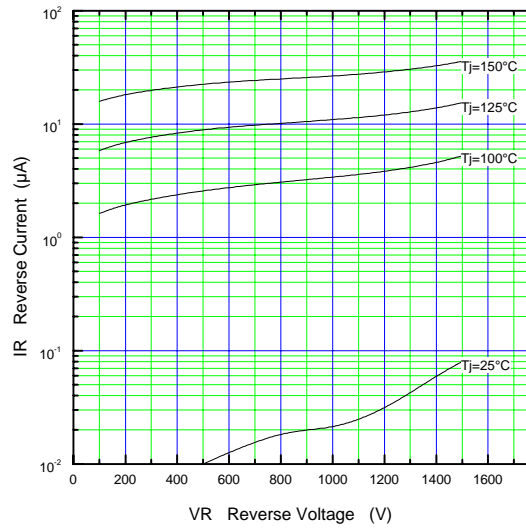


■ Characteristics

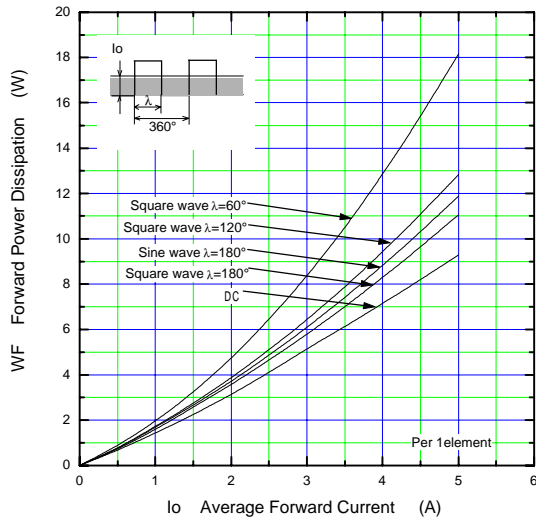
Forward Characteristic (typ.)



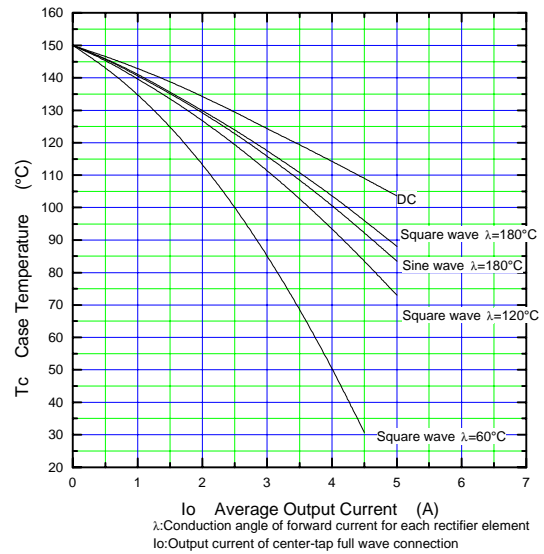
Reverse Characteristic (typ.)



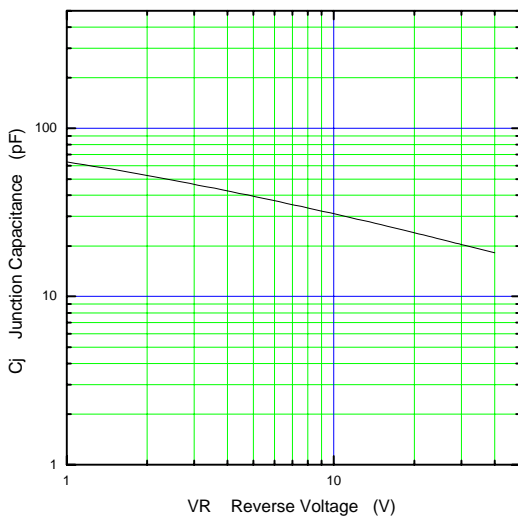
Forward Power Dissipation



Current Derating (Io-Tc)



Junction Capacitance Characteristic (typ.)



Surge Capability

