YG861S15R (5A) (150V / 5A)

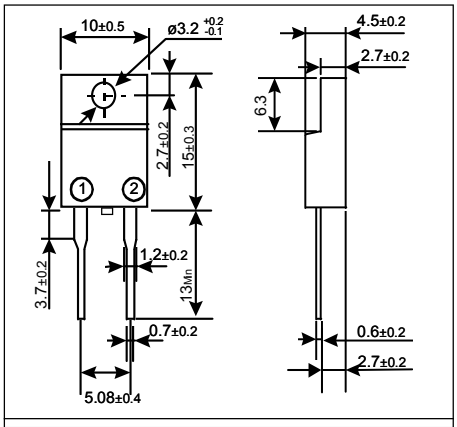
[0401]

High Voltage Schottky barrier diode

Major characteristics

Characteristics	YG861S15R	Units	Condition
V_{RRM}	150	V	
V_F	0.90	V	Tc=25°C MAX.
Io	5	A	

Outline drawings, mm



Package : TO-220F
Epoxy resin UL : V-0

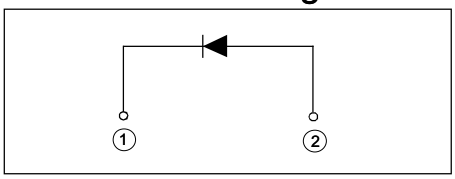
Features

- Low V_F
- High Voltage
- Center tap connection

Applications

- High frequency operation
- DC-DC converters
- AC adapter

Connection diagram



Maximum ratings and characteristics

● Absolute maximum ratings (at Tc=25°C Unless otherwise specified)

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V_{RSM}	tw=500ns, duty=1/40	150	V
Repetitive peak reverse voltage	V_{RRM}		150	V
Isolating voltage	Viso	Terminals-to-Case, AC.1min	1500	V
Average output current	Io	Square wave, duty=1/2 Tc=94°C	5	A
Non-repetitive surge current	I_{FSM}	Sine wave 10ms 1shot	75	A
Operating junction temperature	T_j		+150	°C
Storage temperature	T_{stg}		-40 to +150	°C

● Electrical characteristics (at Tc=25°C Unless otherwise specified)

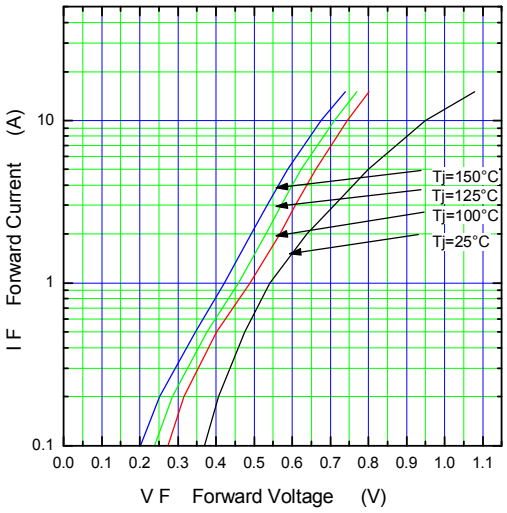
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_F	I_{FM}=5A	0.90	V
Reverse current	I_R	$V_R=V_{RRM}$	150	μA
Thermal resistance	Rth(j-c)	Junction to case	5.0	°C/W

● Mechanical characteristics

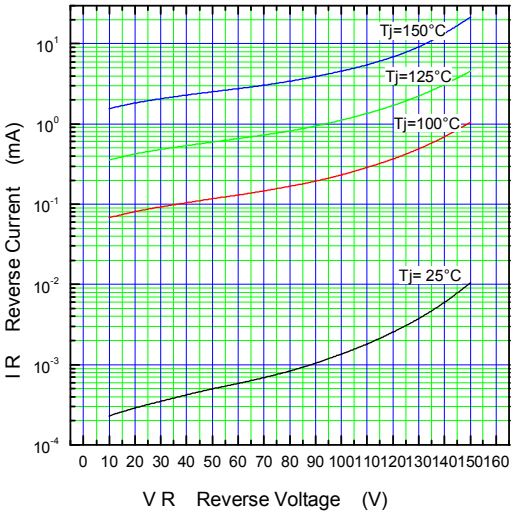
Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass		2	g

■ Characteristics

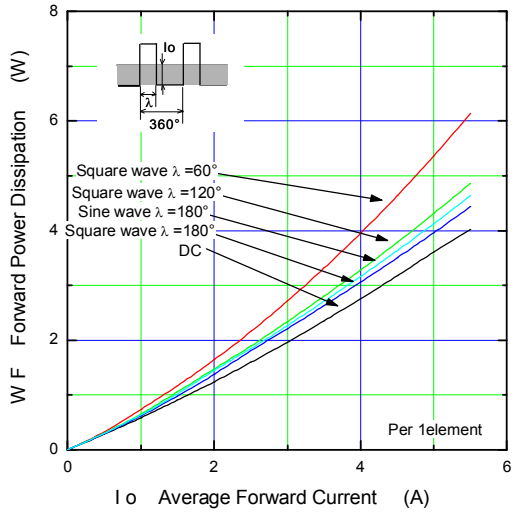
Forward Characteristic (typ.)



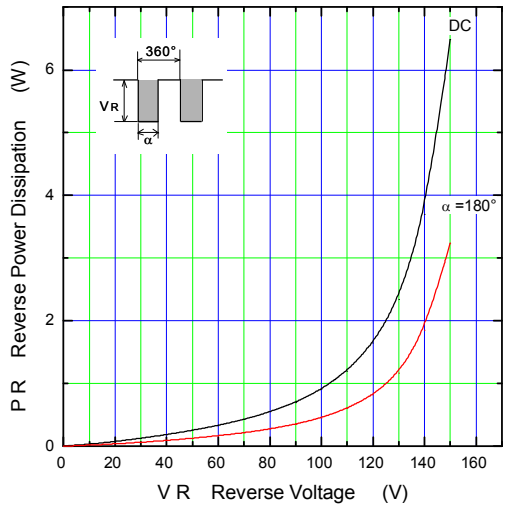
Reverse Characteristic (typ.)



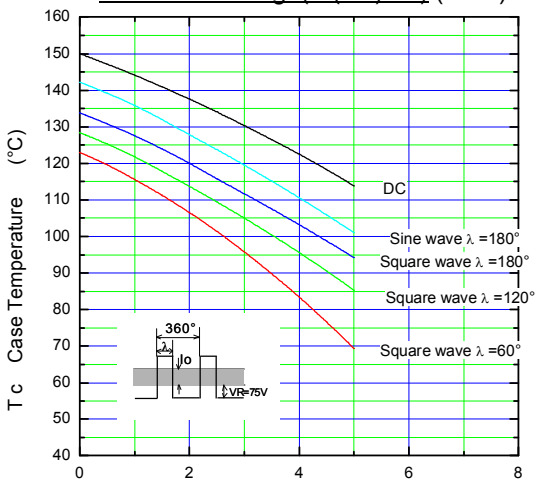
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

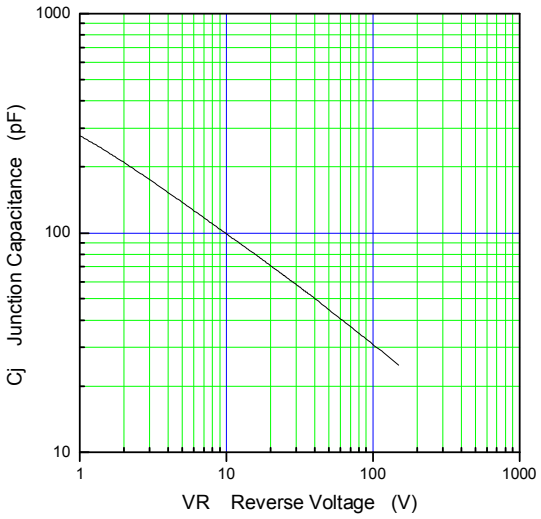


Current Derating (IF(AV)-Tc) (max.)

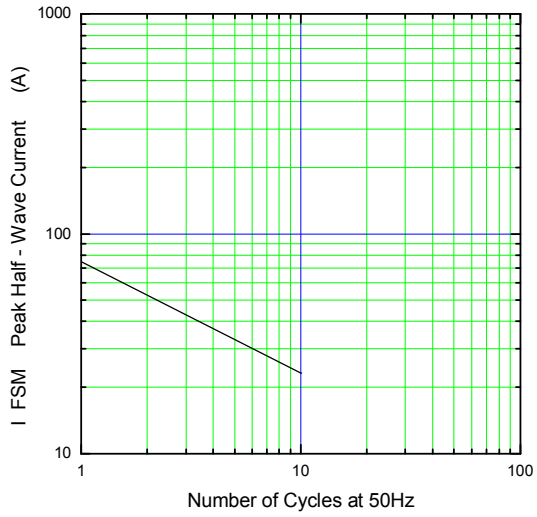


λ :Conduction angle of forward current for each rectifier element
IF(AV):Average forward current of center-tap full wave connection

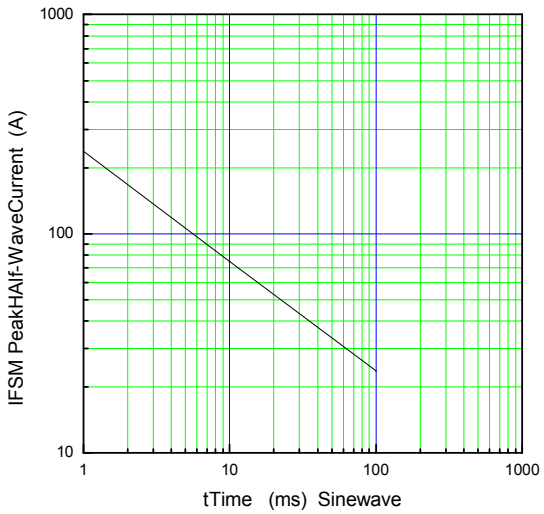
Junction Capacitance Characteristic (max.)



Surge Capability (max.)



Surge Current Ratings (max.)



Transient Thermal Impedance (max.)