

YG868C15R (30A)

(150V / 30A)

[0401]

High Voltage Schottky barrier diode

■ Major characteristics

Characteristics	YG868C15R	Units	Condition
V _{RRM}	150	V	
V _F	0.90	V	T _c =25°C MAX.
I _O	30	A	

■ Features

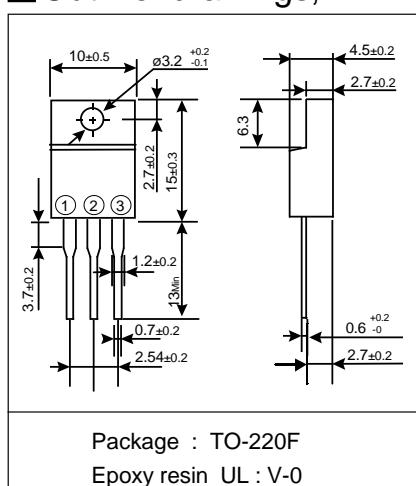
- Low VF
 - High Voltage
 - Center tap connection
 - High frequency operation
 - DC-DC converters
 - AC adapter

■ Applications

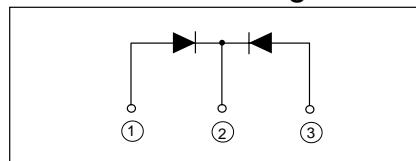
- High frequency operation
 - DC-DC converters
 - AC adapter

■ Maximum ratings and characteristics

- Absolute maximum ratings (at $T_c=25^\circ\text{C}$ Unless otherwise specified)



■ Connection diagram



Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V _{RSM}	t _w =500ns, duty=1/40	150	V
Repetitive peak reverse voltage	V _{RRM}		150	V
Isolating voltage	V _{iso}	Terminals-to-Case, AC.1min	1500	V
Average output current	I _O	Square wave, duty=1/2 T _C =112°C	30 *	A
Non-repetitive surge current **	I _{FSM}	Sine wave 10ms 1shot	225	A
Operating junction temperature	T _J		+150	°C
Storage temperature	T _{stg}		-40 to +150	°C

* Out put current of center tap full wave connection

**Rating per element

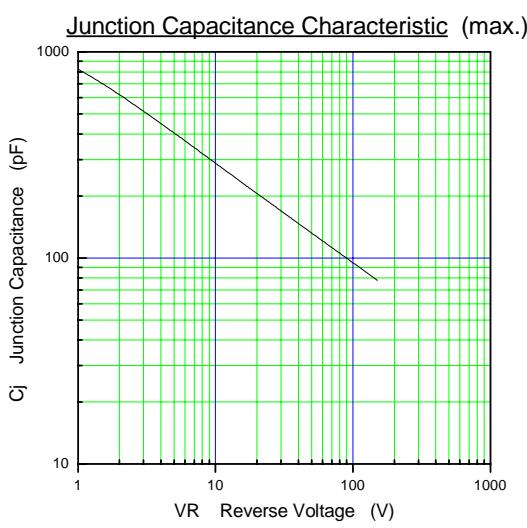
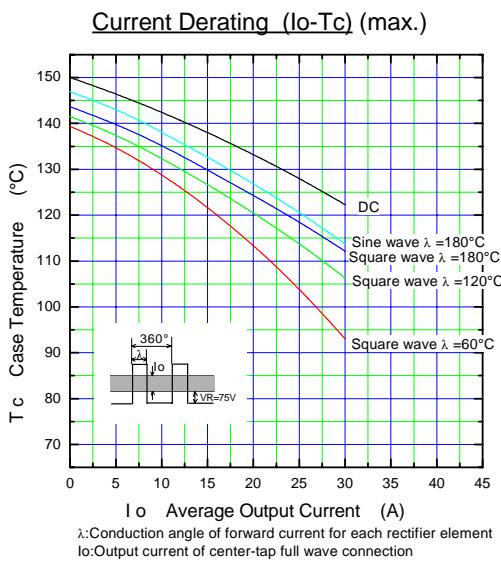
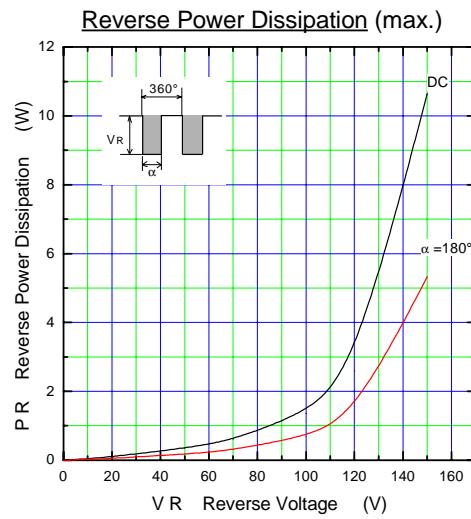
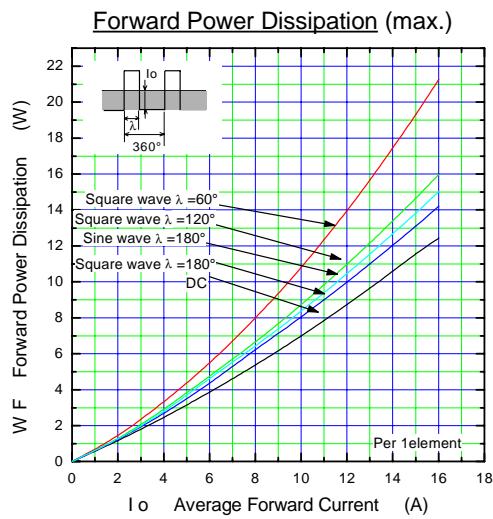
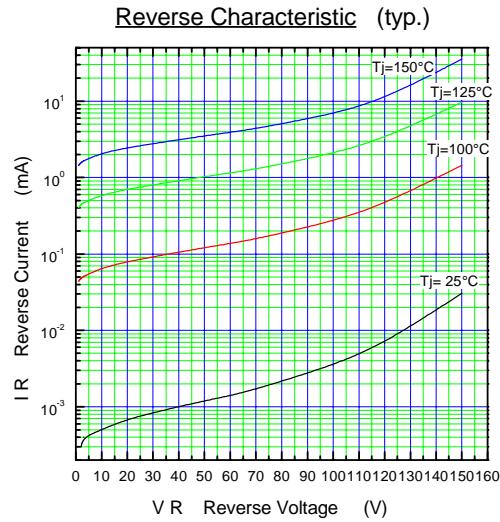
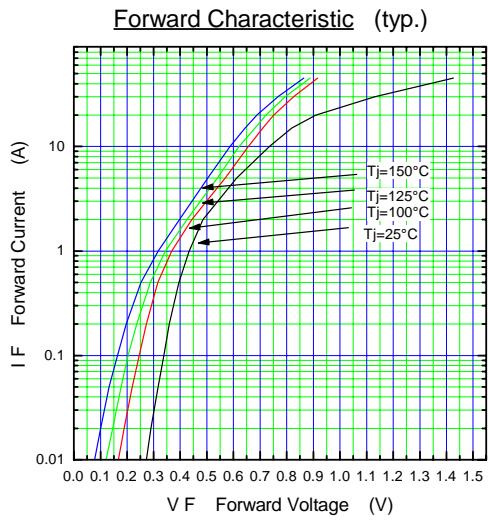
- Electrical characteristics (at $T_c=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_F	$I_{FM}=15A$	0.90	V
Reverse current	I_R	$V_R=V_{RRM}$	200	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.2	$^{\circ}C/W$

- Mechanical characteristics

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

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