

YA868C15R (30A)

(150V / 30A)

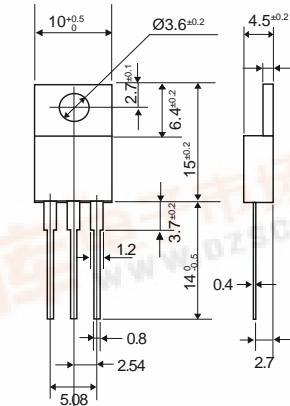
[0401]

High Voltage Schottky barrier diode

■ Major characteristics

Characteristics	YA868C15R	Units	Condition
V _{RRM}	150	V	
V _F	0.90	V	T _c =25°C MAX.
I _o	30	A	

■ Outline drawings, mm



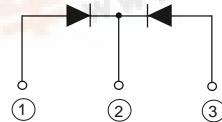
Package : TO-220
Epoxy resin UL : V-0

■ Features

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

■ Applications

■ Connection diagram



■ Maximum ratings and characteristics

- Absolute maximum ratings (at T_c=25°C Unless otherwise specified)

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
Average output current	I _o	Square wave, duty=1/2 T _c =118°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

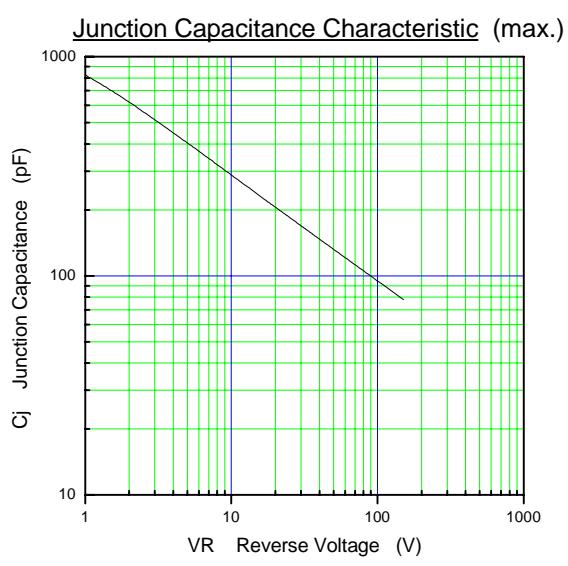
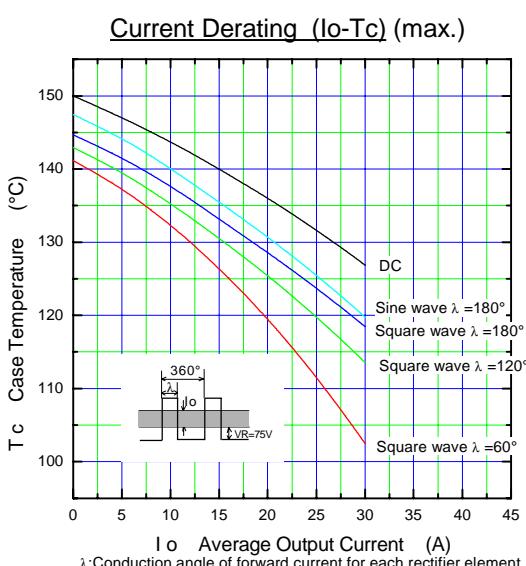
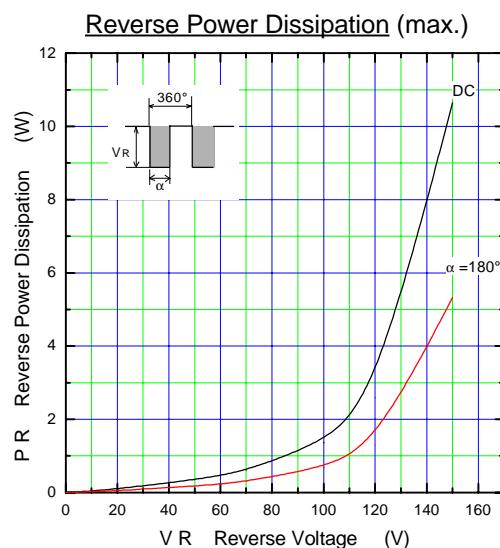
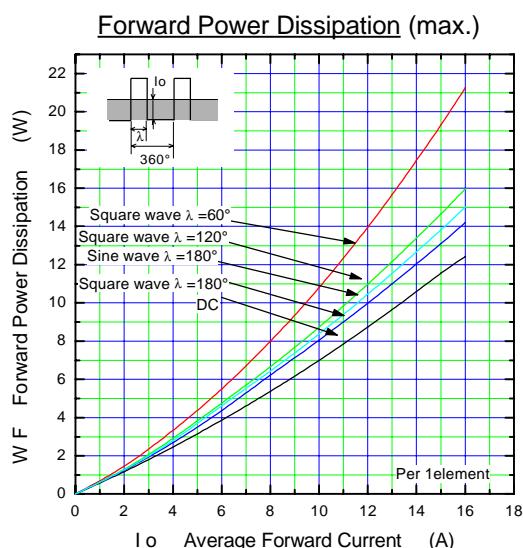
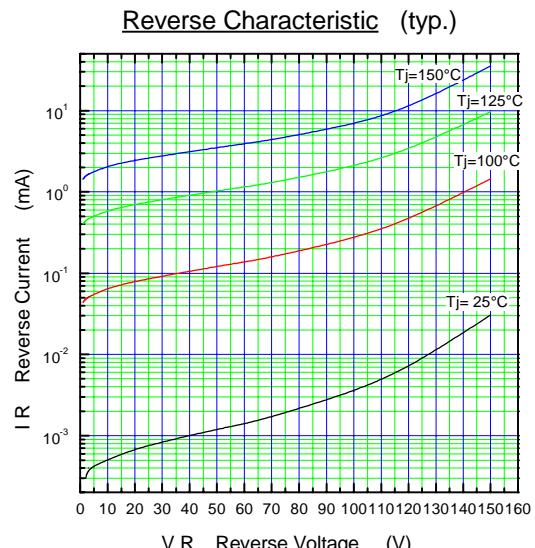
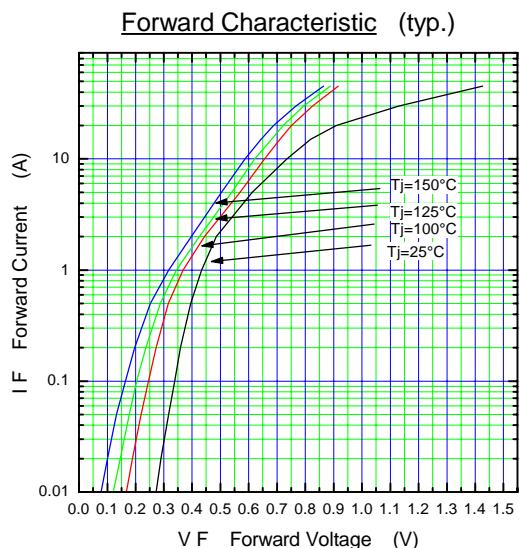
- Electrical characteristics (at T_c=25°C Unless otherwise specified)

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	1.0	°C/W

• Mechanical characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N·m

■ Characteristics



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