

YG869C08R

FUJI Diode

Schottky Barrier Diode

■ Maximum Rating and Characteristics

● Maximum ratings (at Ta=25°C unless otherwise specified.)

Item	Symbols	Conditions	Ratings	Units
Repetitive peak reverse voltage	V_{RRM}	-	80	V
Isolating voltage	V_{iso}	Terminals-to-case, AC. 1min	1500	V
Average output current	I_O	50Hz Square wave duty =1/2 Tc = 86°C	40*	A
Non-repetitive forward surge current**	I_{FSM}	Sine wave, 10ms 1shot	190	A
Operating junction temperature	T_J	-	150	°C
Storage temperature	T_{stg}	-	-40 to +150	°C

Note* Out put current of center tap full wave connection.

Note** Rating per element

● Electrical characteristics (at Ta=25°C unless otherwise specified.)

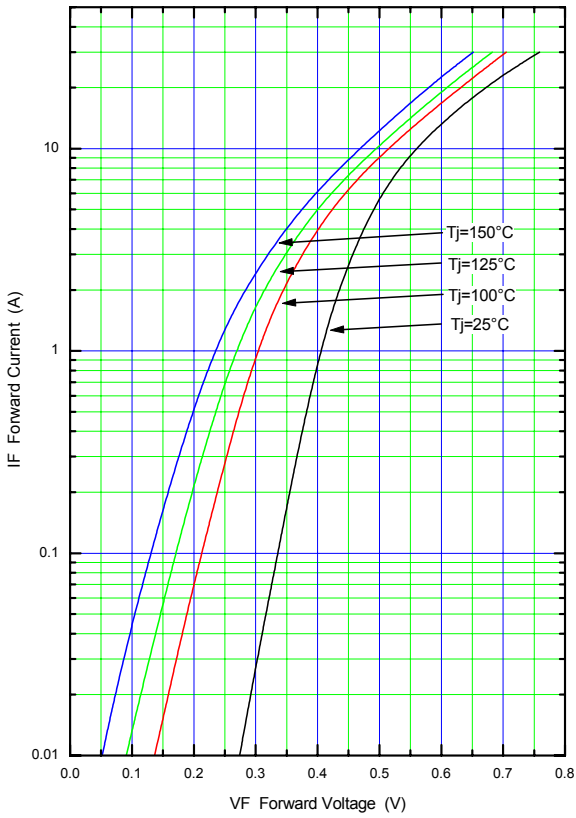
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V_F	$I_F = 20$ A	0.71	V
Reverse current***	I_R	$V_R = V_{RRM}$	0.20	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.2	°C/W

Note*** Rating per element

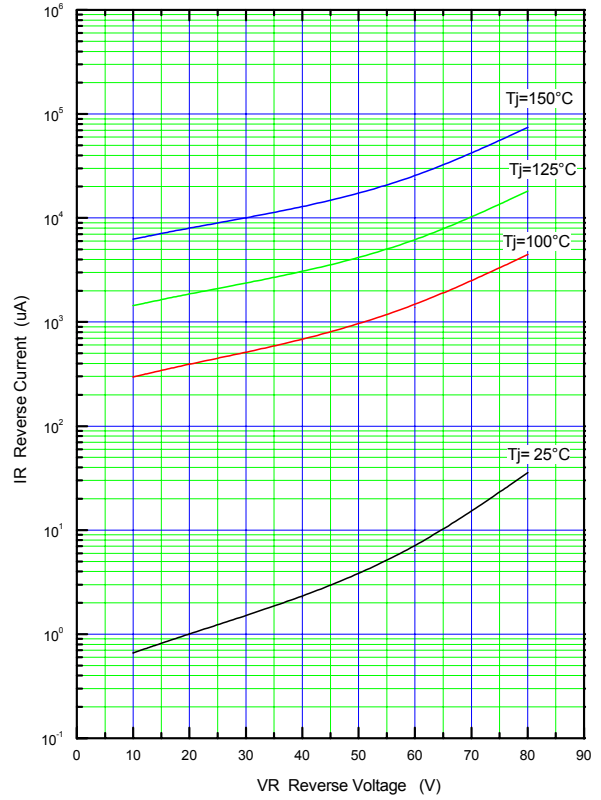
● Mechanical characteristics

Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass	-	1.7	g

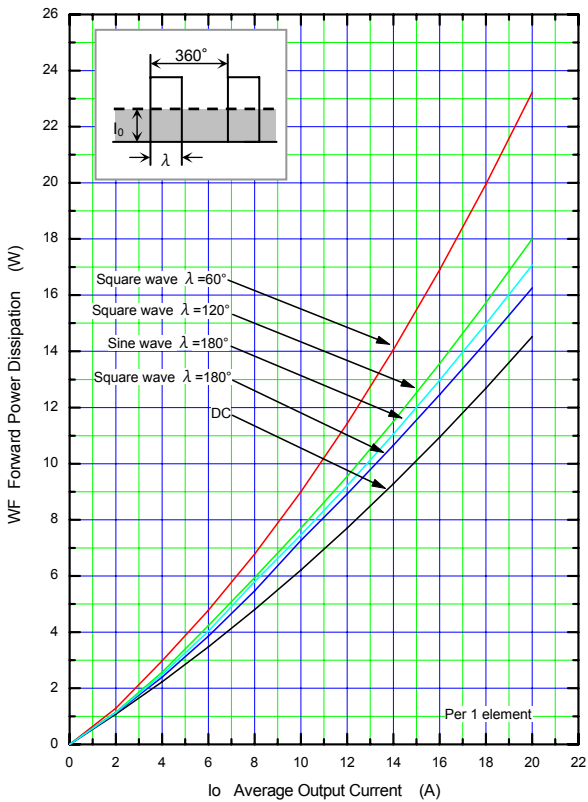
Forward Characteristic (typ.)



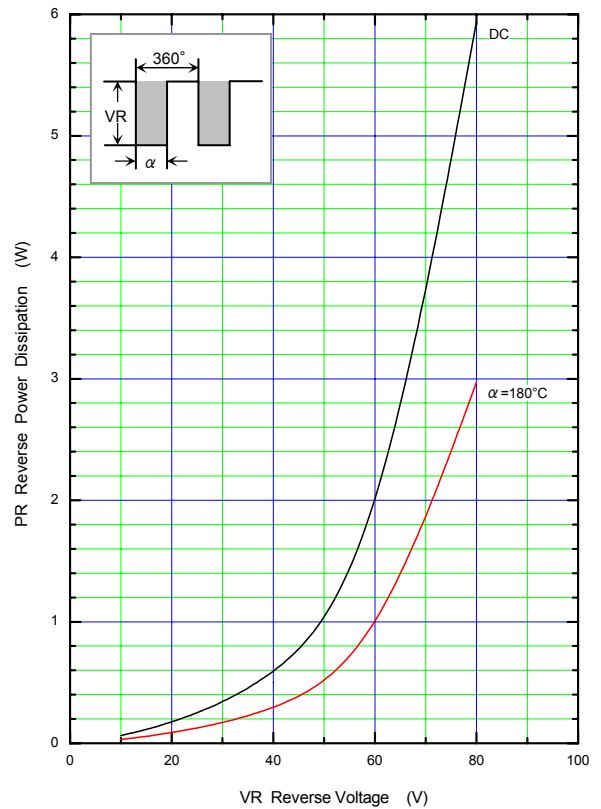
Reverse Characteristic (typ.)



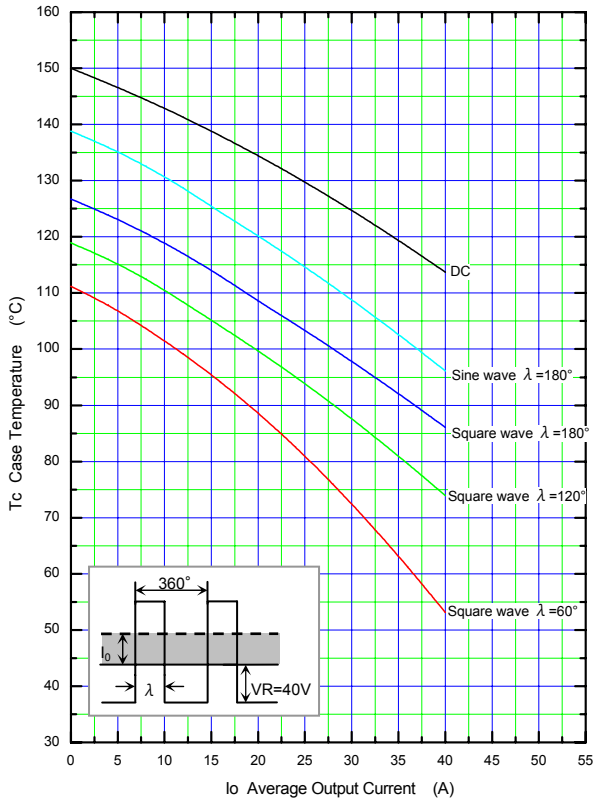
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

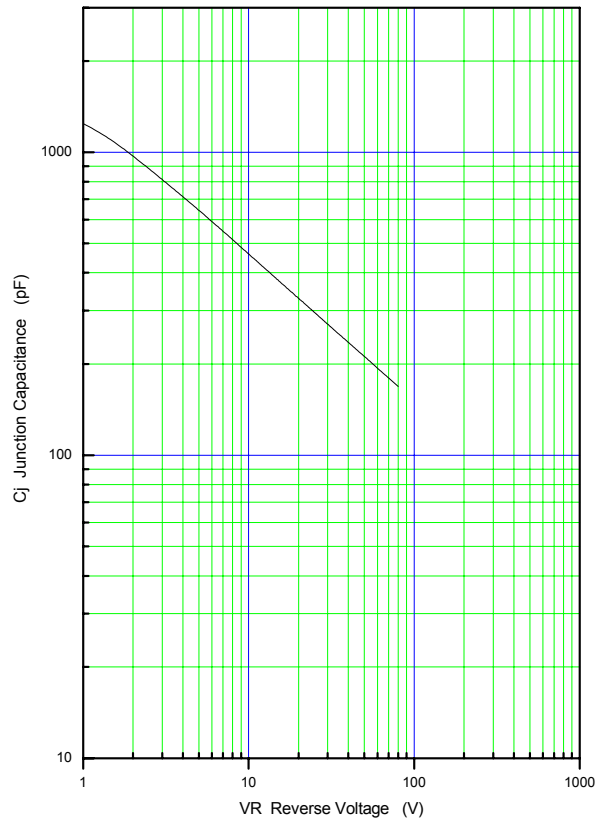


Current Derating (Io-Tc) (max.)

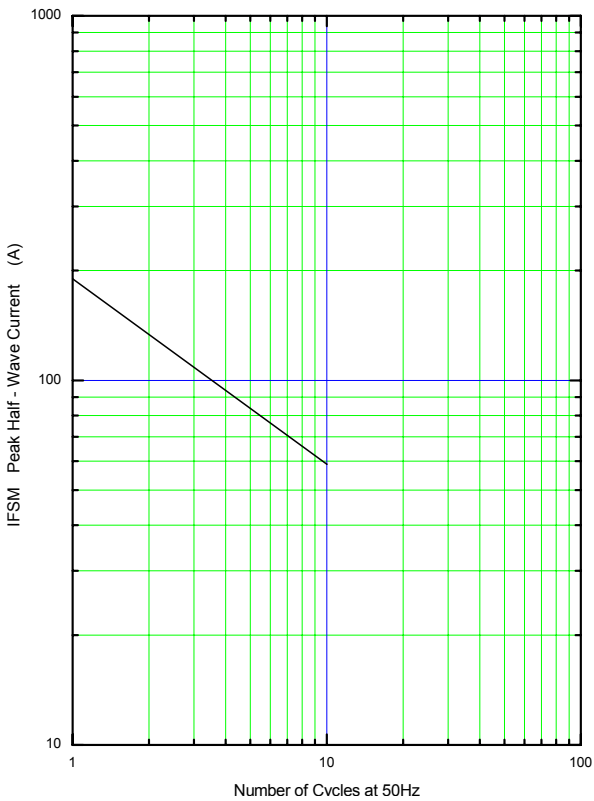


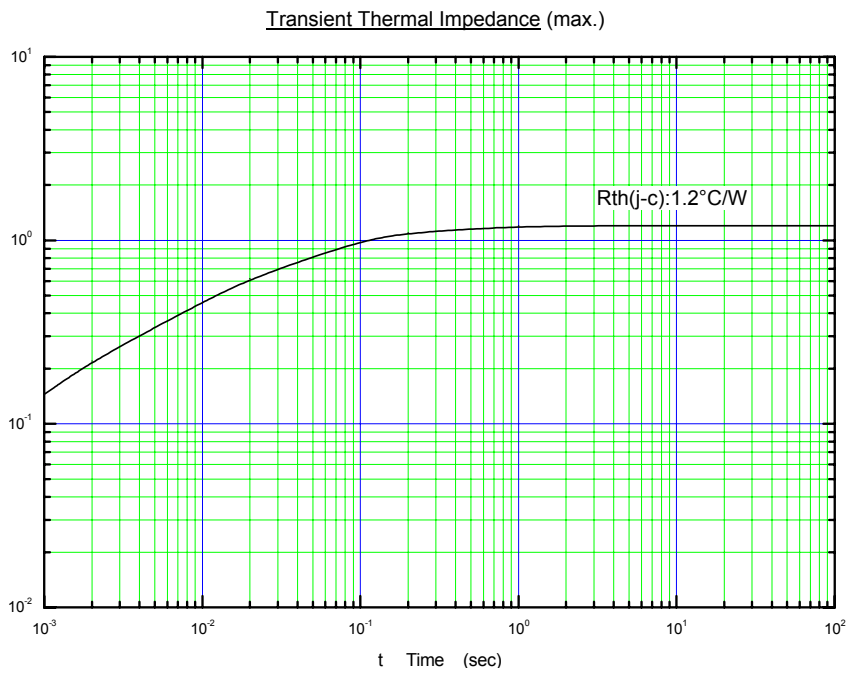
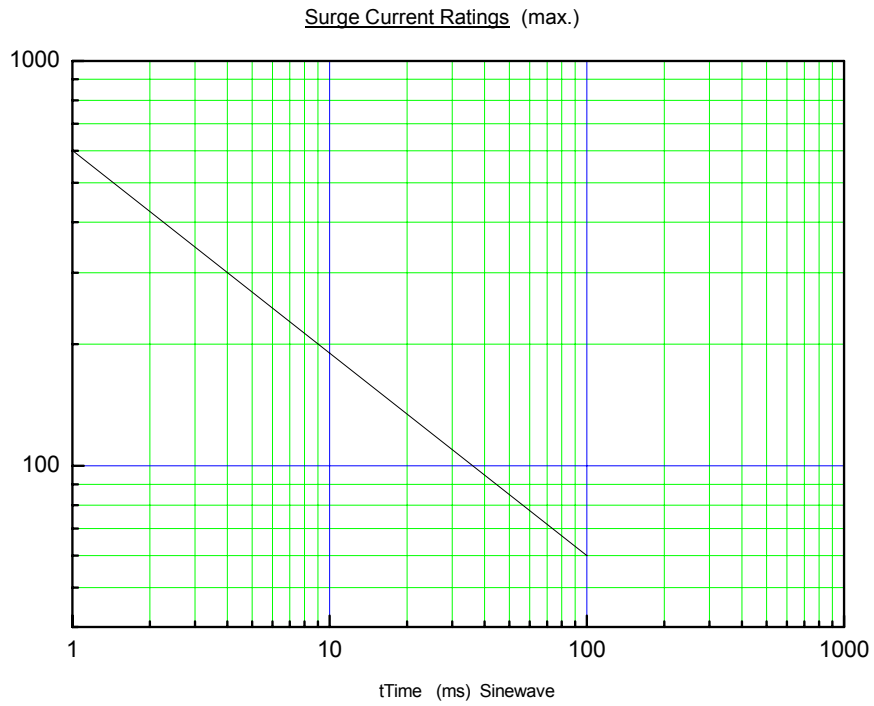
λ : Conduction angle of forward current for each rectifier element
 Io: Output current of center-tap full wave connection

Junction Capacitance Characteristic (max.)



Surge Capability (max.)





WARNING

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 - Electrical home appliances
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 - Safety devices
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