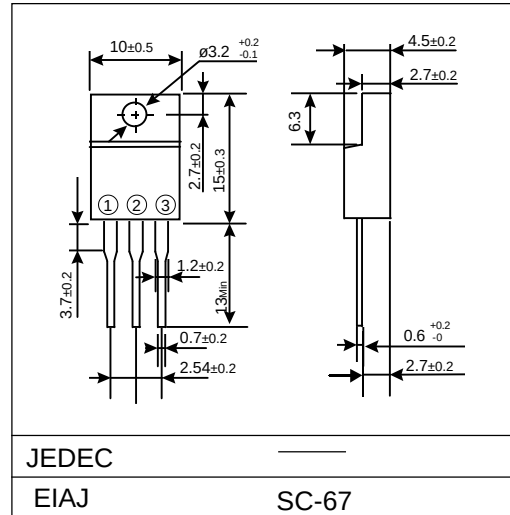


YG882C02R

(20V / 16A TO-220F15)

SCHOTTKY BARRIER DIODE

Outline Drawings



Features

- Low V_F
- Super high speed switching.
- High reliability by planer design.

Applications

- High speed power switching.

Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		20	V
Repetitive peak surge reverse voltage	V_{RSM}	$t_w=500ns$, duty=1/40	20	V
Isolating voltage	V_{iso}	Terminals to Case, AC, 1min.	1500	V
Average output current	I_o	duty=1/2, $T_c=94^{\circ}C$ Square wave	16*	A
Suege current	I_{FSM}	Sine wave 10ms	120	A
Operating junction temperature	T_j		+125	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +125	$^{\circ}C$

* Out put current of centertap full wave connection.

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

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	V_F	$I_F=4.0A$	0.39	V
Reverse current **	I_R	$V_R=V_{RRM}$	10.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	$^{\circ}C/W$

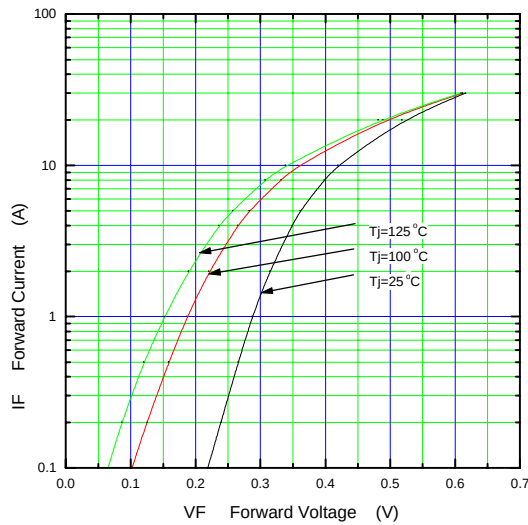
** Rating per element

- Mechanical Characteristics

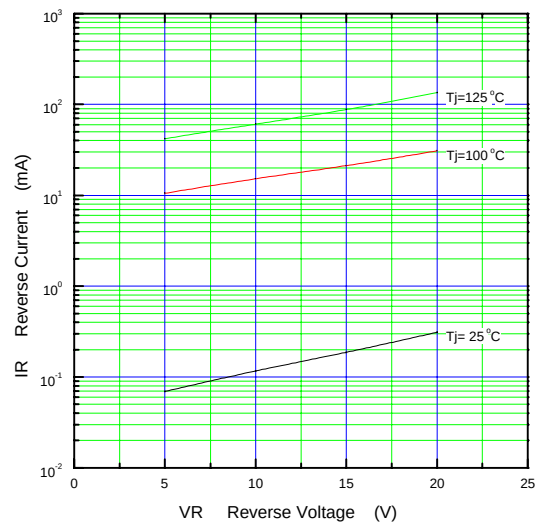
Mounting torque	Recommended torque	0.3 to 0.5	N · m
Weight		2.3	g

Characteristics

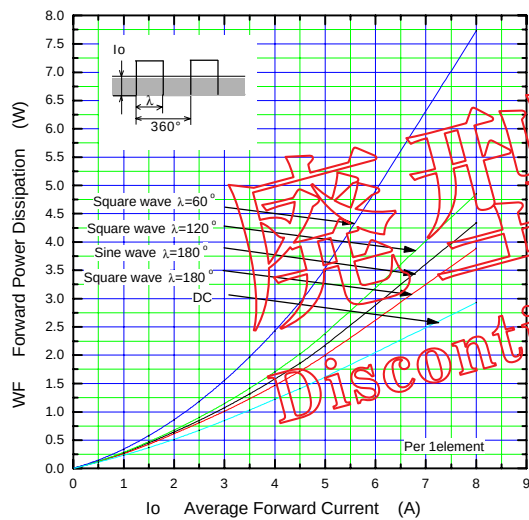
Forward Characteristic (typ.)



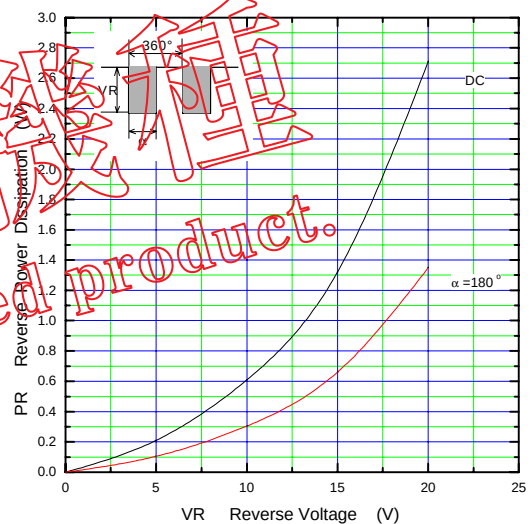
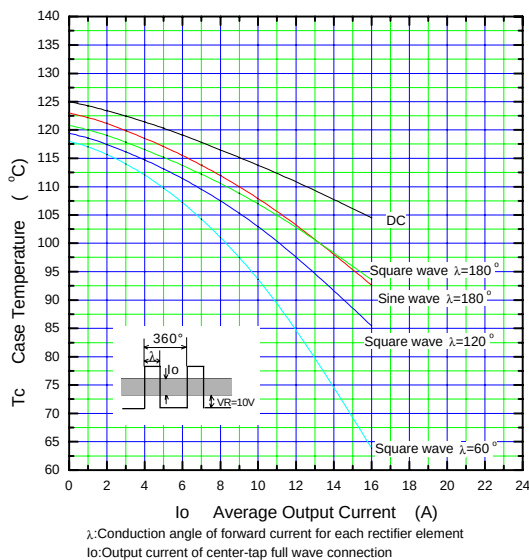
Reverse Characteristic (typ.)



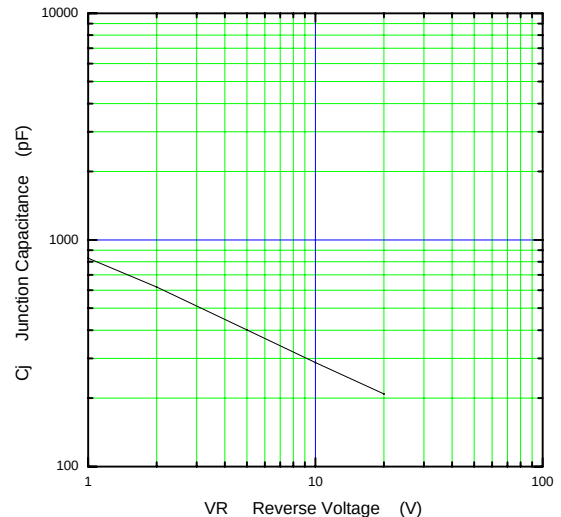
Forward Power Dissipation

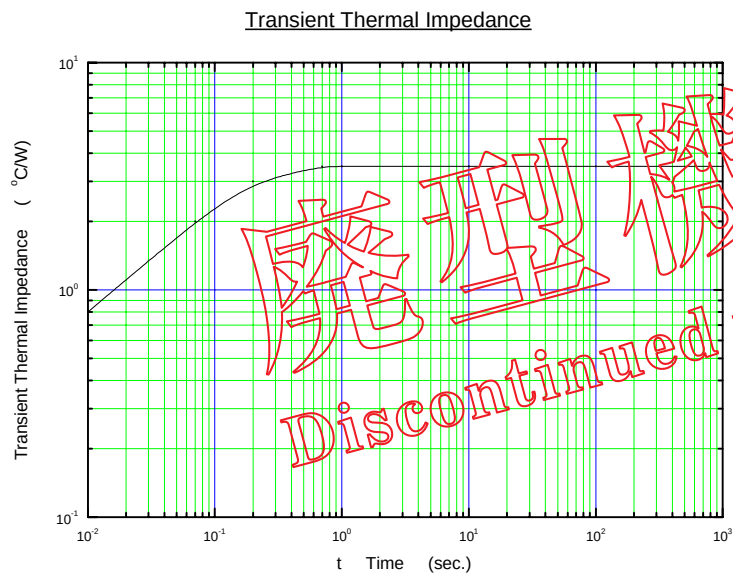
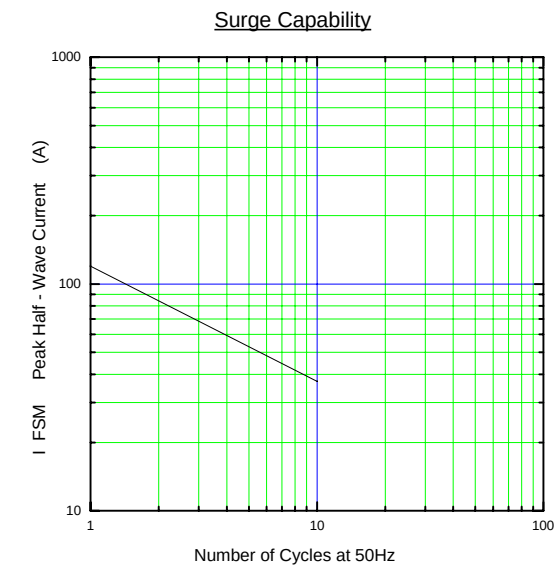


Reverse Power Dissipation

Current Derating (I_o - T_c)

Junction Capacitance Characteristic (typ.)





廢型機種
Discontinued product.