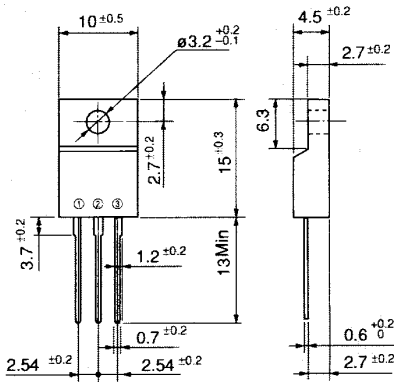
YG803C04R (40V / 15A)

Fuji Electric

[200510]

Schottky-Barrier Diode

Outline drawings, mm



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

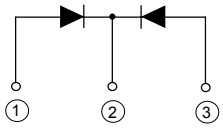
Features

- Low V_F
- Center tap connection

Applications

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

Connection diagram



Maximum ratings and characteristics

● Maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V_{RSM}	tw=500ns, duty=1/40	40	V
Repetitive peak reverse voltage	V_{RRM}		40	V
Isolating voltage	Viso	Terminals-to-Case, AC.1min.	1500	V
Average output current	Io	Square wave, duty=1/2 Tc=92°C	15 *	A
Non-repetitive surge current	I_{FSM}	Sine wave 10ms	120	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

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

Item	Symbol	Conditions	Max.	Unit
Forward voltage **	V_F	I_F=7A	0.55	V
Reverse current **	I_R	$V_R=V_{RRM}$	3.0	mA
Thermal resistance	Rth(j-c)	Junction to case	3.5	°C/W

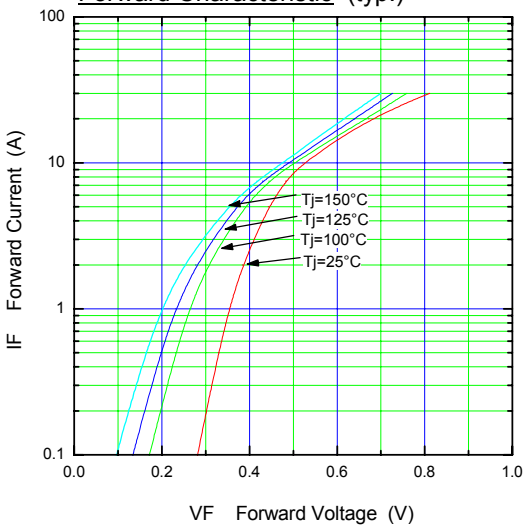
**Rating per element

● Mechanical characteristics

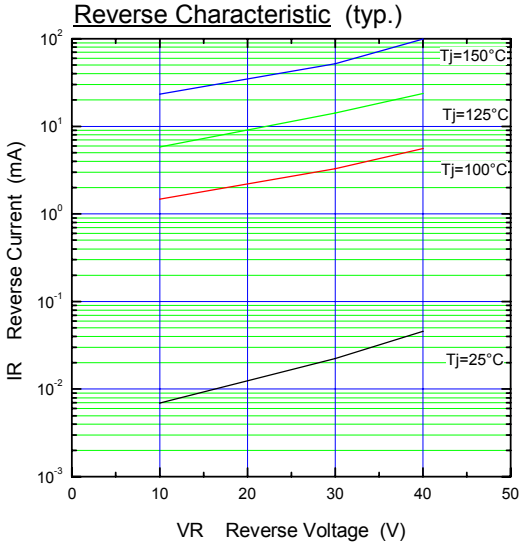
Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass		2	g

■ Characteristics

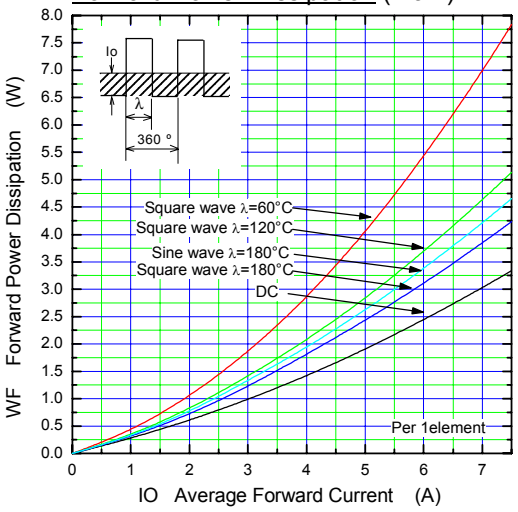
Forward Characteristic (typ.)



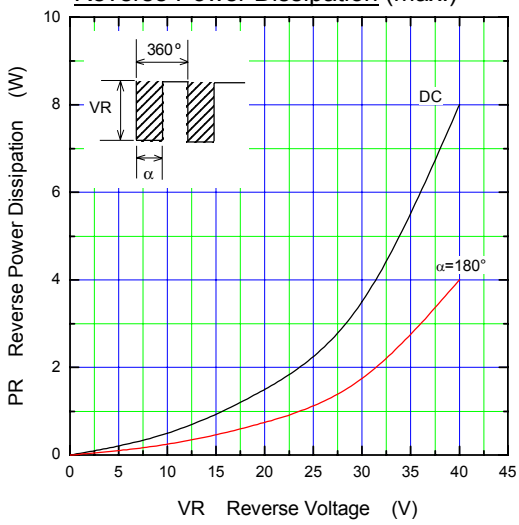
Reverse Characteristic (typ.)



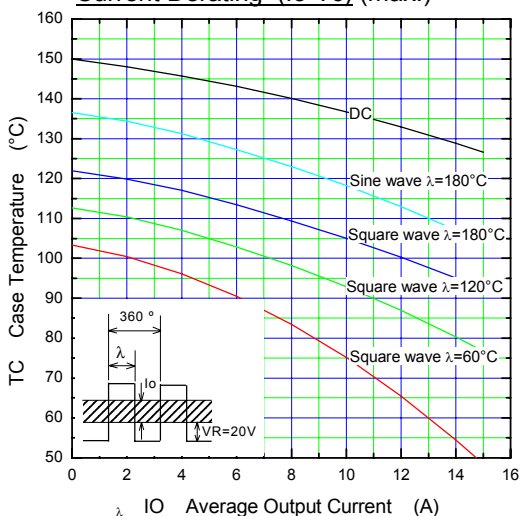
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

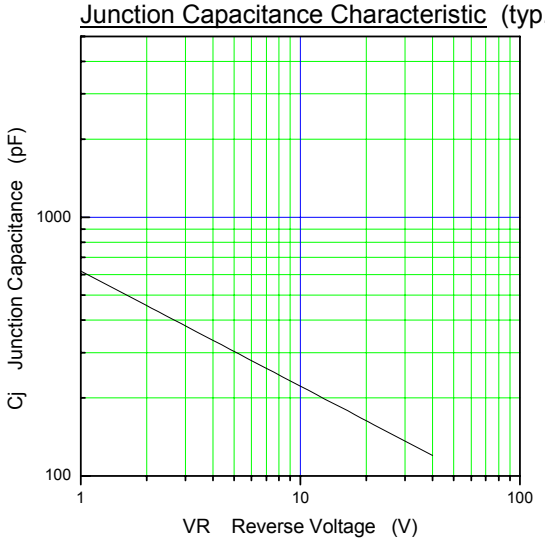


Current Derating (Io-Tc) (max.)

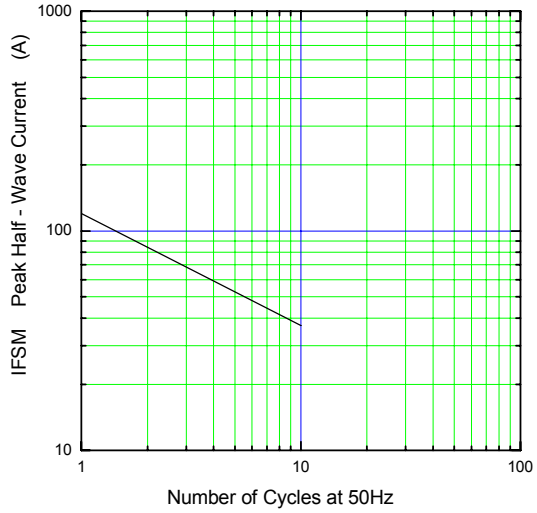


λ :Conduction angle of forward current for each rectifier element
Io:Output current of center-tap full wave connection

Junction Capacitance Characteristic (typ.)



Surge Capability (max.)



Transient Thermal Impedance (max.)

