

# YG875C12R (120V, 20A)

#### FUJI Diode

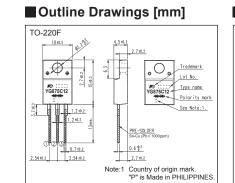
## **Ultra Low IR Schottky Barrier Diode**

#### Features

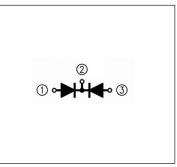
- Ultra Low IR
- Low VF
- Tj MAX = 175°C
- · High reliability at higher temperatures

#### Applications

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



#### Connection diagram



#### Maximum Ratings and Characteristics

#### • Maximum ratings (at Ta=25°C Unless otherwise specified)

Item	Symbols	Conditions	Ratings	Units
Repetitive peak reverse voltage	VRRM		120	V
Isolating voltage	Viso	Terminals-to-case, AC.1min	1500	V
Average output current	lo	50Hz Square wave duty =1/2 Tc =131°C	20 *	А
Non-repetitive surge current **	IFSM	Sine wave, 10ms 1shot	145	А
Operating junction temperature	Tj		175	°C
Storage temperature	Tstg		-40 to +175	°C

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

\*\*Rating per element

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

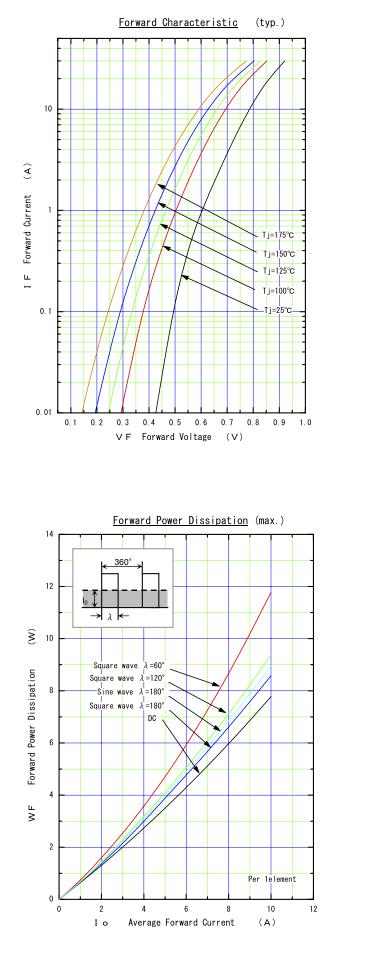
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	VF	I <sub>F</sub> = 10 A	0.88	V
Reverse current***	IR	Vr =Vrrm	20	μA
Thermal resistance	Rth(j-c)	Junction to case	2.5	°C/W

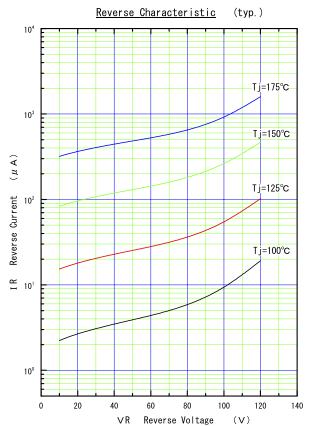
\*\*\*Rating per element

#### Mechanical characteristics

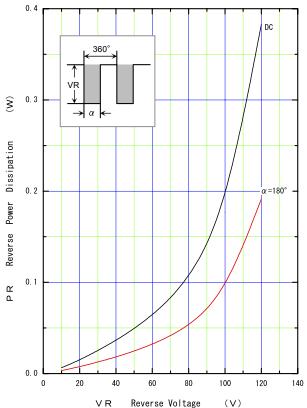
Item	Conditions	Ratings	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass		2.0	g

http://www.fujisemi.com



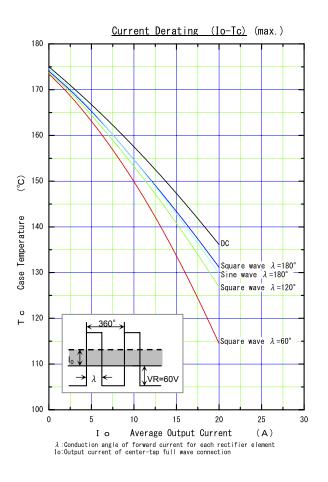


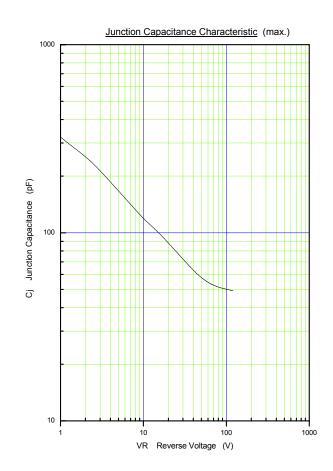
<u>Reverse Power Dissipation</u> (max.)



FUJI Diode

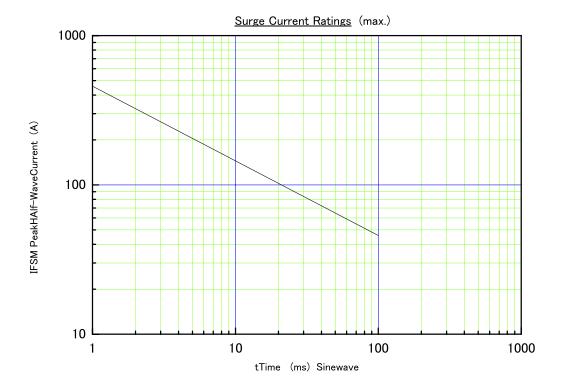
http://www.fujisemi.com



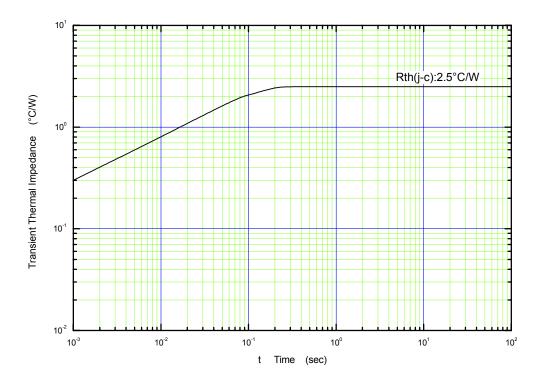


Surge Capability (max.)

3



Transient Thermal Impedance (max.)



### 

		WARNING -		
	change without notice for	naracteristics, data, materials, a or specification changes or othe		
express or implied, under a is (or shall be deemed) gran	ny patent, copyright, trac nted. Fuji Electric System or implied, relating to the	the use of Fuji's products for yo le secret or other intellectual pro is Co., Ltd. makes no represent infringement or alleged infringe d herein.	operty right owned by Fuji E ation or	Electric Systems Co., Ltd.
products may become fault adequate safety measures	y. When using Fuji Electr to prevent the equipment	ng product quality and reliability ric semiconductor products in yo t from causing a physical injury, ign fail-safe, flame retardant, ar	our equipment, you are requ fire, or other problem if any	uested to take
normal reliability requireme • Computers • OA	ents. equipment ·	d for use in the following electro • Communications equipment (t • Electrical home appliances		nt which has • Measurement equipment • Industrial robots etc.
below, it is imperative to co	ntact Fuji Electric System uate measures such as a equipment becomes fau (mounted on cars and sl	hips) • Trunk commur	oval. When using these proc	ducts for ning even if a Fuji's
Emergency equipment for     Medical equipment			Safety devices	Unitedule
<ul> <li>6. Do not use products in this equipment (without limitatic</li> <li>Space equipment</li> <li>Submarine repeater equip</li> </ul>	on). • Aeronautic equipmen	ent requiring strict reliability such such the strict reliability such the strict reli		valents to strategic
7. Copyright ©1996-2008 by No part of this Catalog may		., Ltd. All rights reserved. rm or by any means without the	express permission of Fuji	Electric Systems Co., Ltd.
using the product.	ns Co., Ltd. nor its agents	atalog, ask Fuji Electric System s shall be liable for any injury ca		