

YG875C10R (100V, 20A)

FUJI Diode

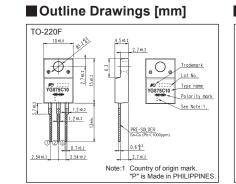
Ultra Low IR Schottky Barrier Diode

Features

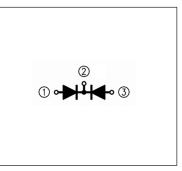
- Ultra Low IR
- Low VF
- Tj MAX = 175°C
- · High reliability at higher temperatures

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		100	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)

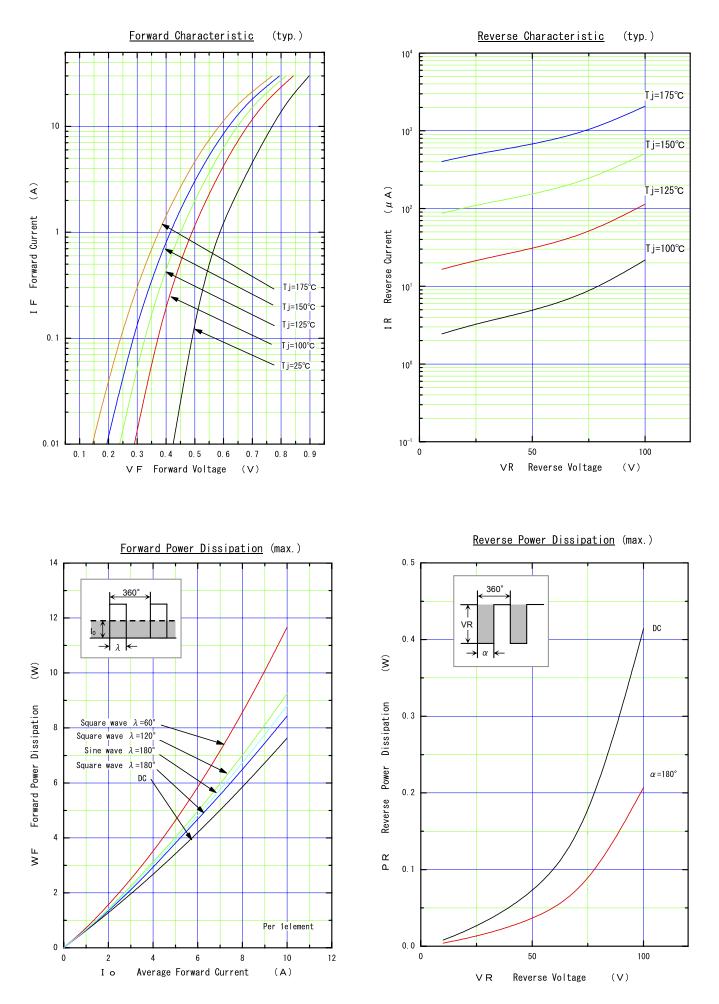
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	VF	I⊧ = 10 A	0.86	V
Reverse current***	IR	Vr =Vrrm	20	μA
Thermal resistance	Rth(j-c)	Junction to case	2.5	°C/W

***Rating per element

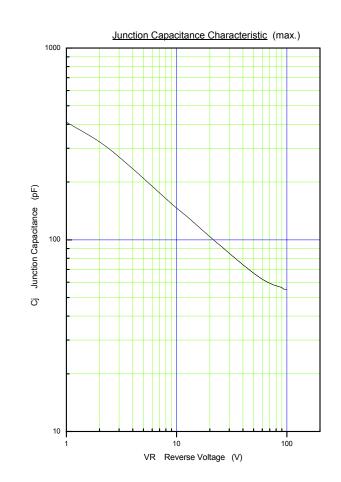
Mechanical characteristics

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

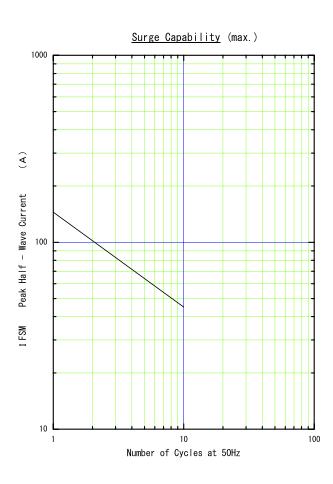
http://www.fujisemi.com

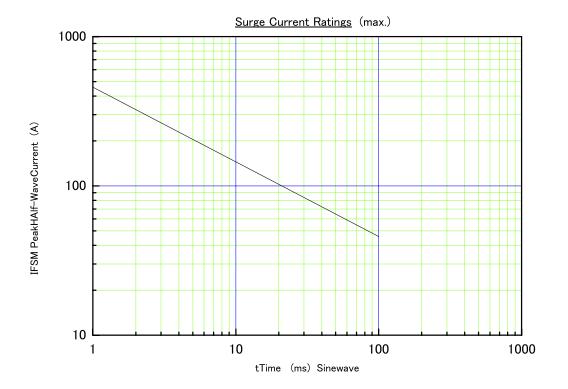


Current Derating (Io-Tc) (max.) 180 170 160 ွ်**ပ** 150 Case Temperature 140 DC Square wave λ=180° Sine wave λ=180° -130 Square wave λ=120° ° ⊢ ¹²⁰ 360° 🔶 Square wave λ=60° 110 VR=50V λ 100 0 5 10 15 20 25 30 Ιo Average Output Current (A) λ :Conduction angle of forward current for each rectifier element Io:Output current of center-tap full wave connection

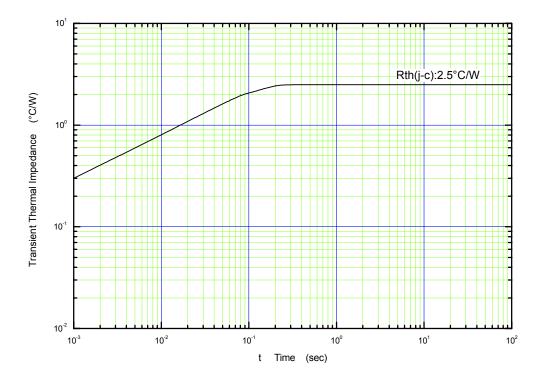


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Transient Thermal Impedance (max.)



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