

# YG868C08R

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	VRRM	-	80	V
Isolating voltage	Viso	Terminals-to-case, AC.1min	1500	V
Average output current	lo	50Hz Square wave duty =1/2 Tc = 72°C	30*	A
Non-repetitive forward surge current**	IFSM	Sine wave, 10ms 1shot	160	A
Operating junction temperature	Tj	-	150	°C
Storage temperature	Tstg	-	-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***	VF	I⊧ =15 A	0.76	V
Reverse current***	Ir	Vr =Vrrm	200	μA
Thermal resistance	Rth(j-c)	Junction to case	2.0	°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

#### Outline Drawings [mm]

### OUT VIEW



PRE-SOLDER 0.6<sup>+0.2</sup> 2.7±0.2

2.7±0.2

DIMENSIONS ARE IN MILLIMETERS.

MARKING



CONNECTION







Forward Power Dissipation (max.) 22 360 20 I<sub>0</sub> 18 → λ k Ś 16 14 Forward Power Dissipation Square wave  $\lambda = 60^{\circ}$ Square wave λ=120° 12 Sine wave  $\lambda = 180^{\circ}$ Square wave  $\lambda = 180^{\circ}$ 10 DC 8 6 ⊾ ≯ 4 2 Per 1element 0 0 2 4 6 8 10 12 14 16 18 Ιo Average Output Current (A)

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



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