

# ESAD83M-006RR

**FUJI Diode** 

## **Schottky Barrier Diode**

#### ■ Maximum Rating and Characteristics

#### ● Maximum ratings (at Ta=25°C unless otherwise specified.)

	<u> </u>			
Item	Symbols	Conditions	Ratings	Units
Repetitive peak reverse voltage	Vrrm	-	60	V
Isolating voltage	Viso	Terminals-to-Case, AC.1min	1500	V
Average output current	lo	50Hz Square wave duty =1/2 Tc = 106°C	30 *	А
Non-repetitive forward surge current**	IFSM	Sine wave, 10ms 1shot	120	А
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 <sub>F</sub> = 12.5 A	0.58	V
Reverse current***	IR	V <sub>R</sub> =V <sub>RRM</sub>	20	mA
Thermal resistance	Rth(j-c)	Junction to case	1.7	°C/W

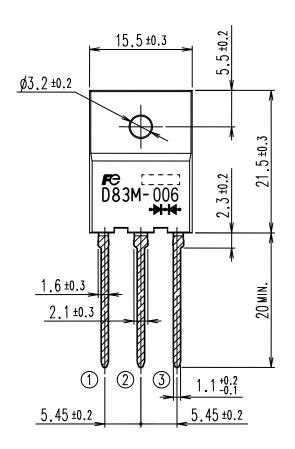
Note\*\*\* Rating per element

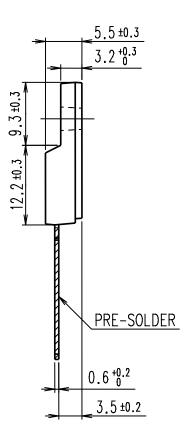
#### Mechanical characteristics

Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4 to 0.6	N•m
Approximate mass	-	6	g

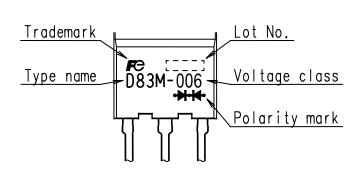
#### ■ Outline Drawings [mm]

## OUT VIEW

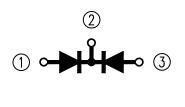




### MARKING

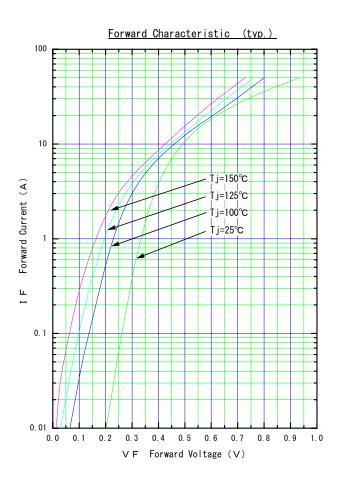


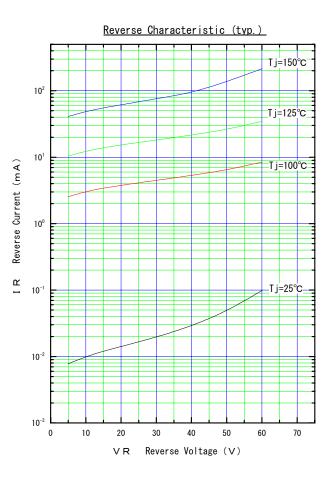
## CONNECTION

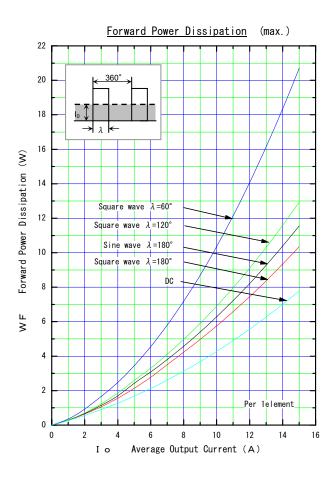


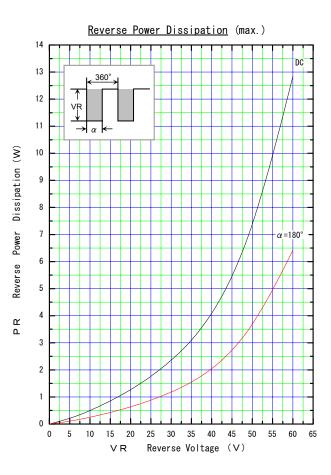
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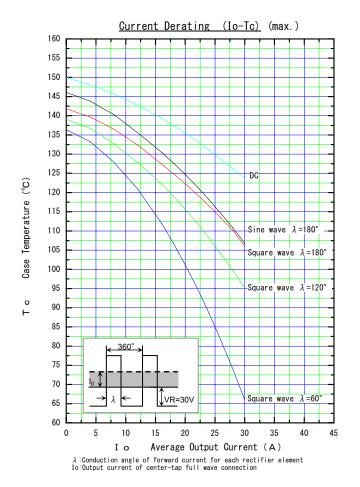
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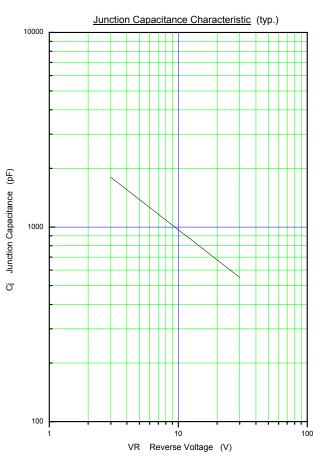


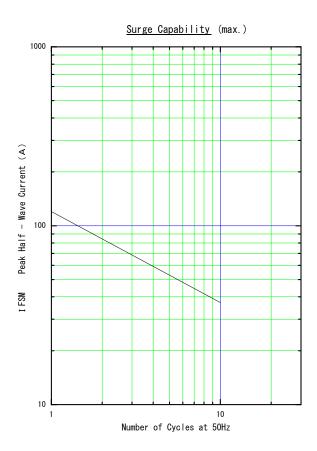






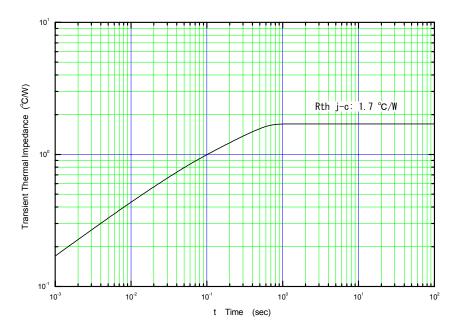






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#### Transient Thermal Impedance (max.)



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- OA equipment
- Communications equipment (terminal devices)
- Measurement equipment

- Machine tools
- Audiovisual equipment
- Electrical home appliances
- Personal equipment
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- Trunk communications equipment

• Traffic-signal control equipment

- Gas leakage detectors with an auto-shut-off feature
   Gas leakage detectors with an auto-shut-off feature
- Emergency equipment for responding to disasters and anti-burglary devices Medical equipment
- Safety devices

- Medical equipment
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