

ESAD83-004R

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 surge reverse voltage	V_{RSM}	tw=500ns, duty=1/40	48	V
Repetitive peak reverse voltage	V_{RRM}	-	40	V
Average output current	I_o	50Hz Square wave duty =1/2 Tc = 118°C	30 *	A
Non-repetitive forward surge current**	I_{FSM}	Sine wave, 10ms 1shot	150	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***	V_F	$I_F = 12.5\text{ A}$	0.55	V
Reverse current***	I_R	$V_R = V_{RRM}$	20	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.2	°C/W

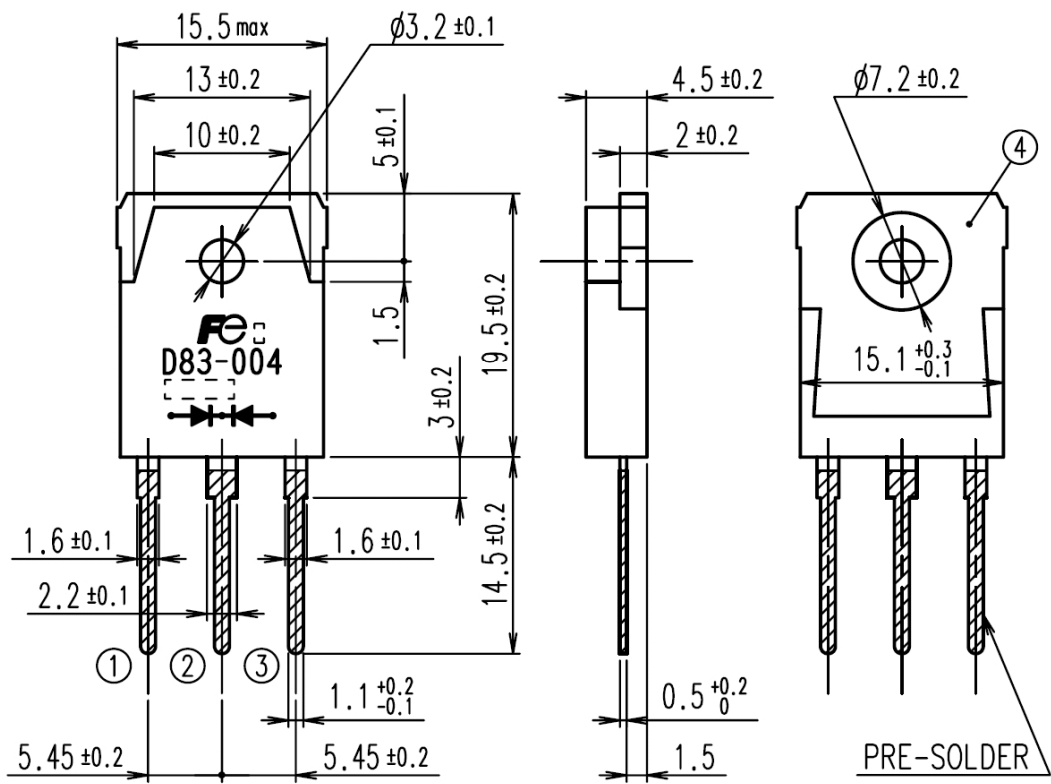
Note*** Rating per element

● Mechanical characteristics

Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4 to 0.6	N•m
Approximate mass	-	5.5	g

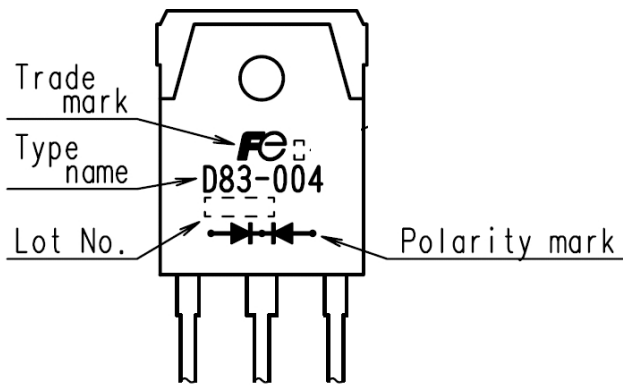
Outline Drawings [mm]

OUT VIEW

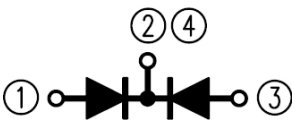


DIMENSIONS ARE IN MILLIMETERS.

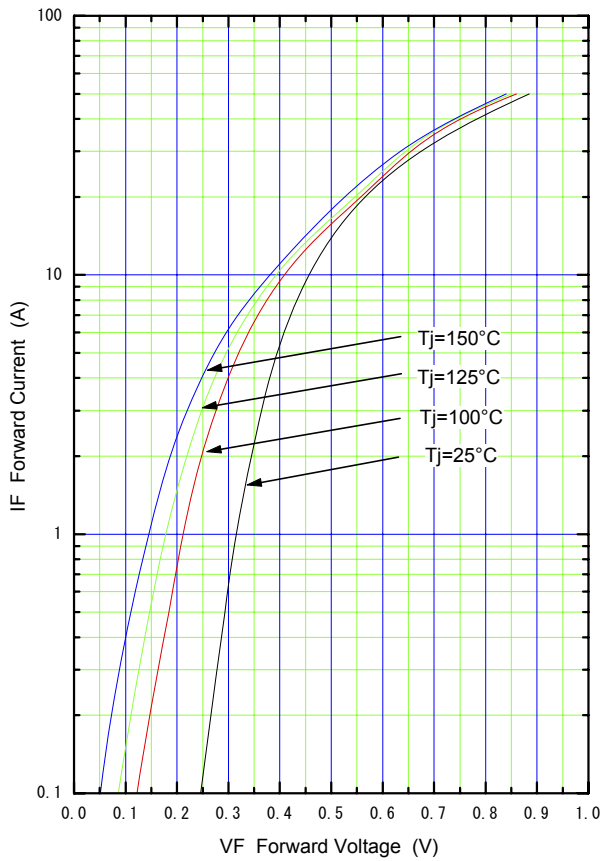
MARKING



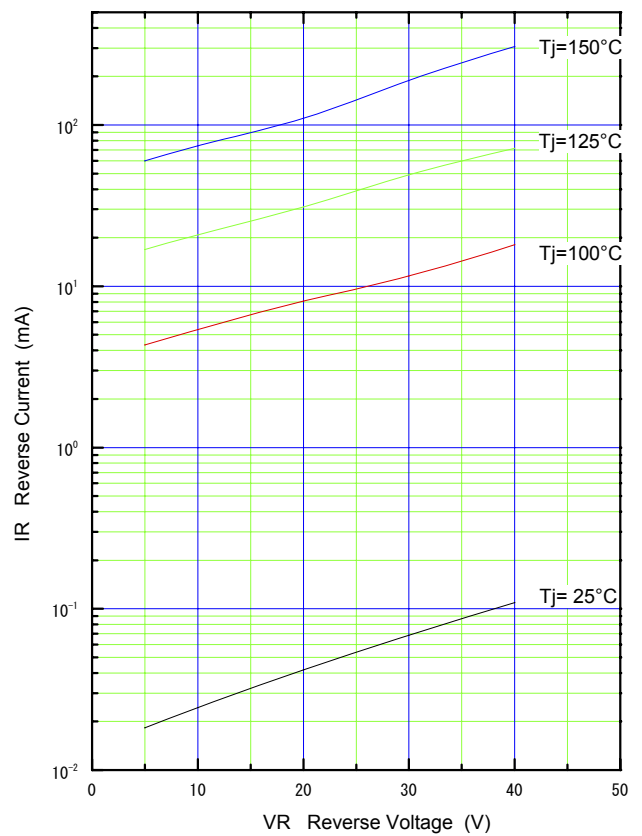
CONNECTION



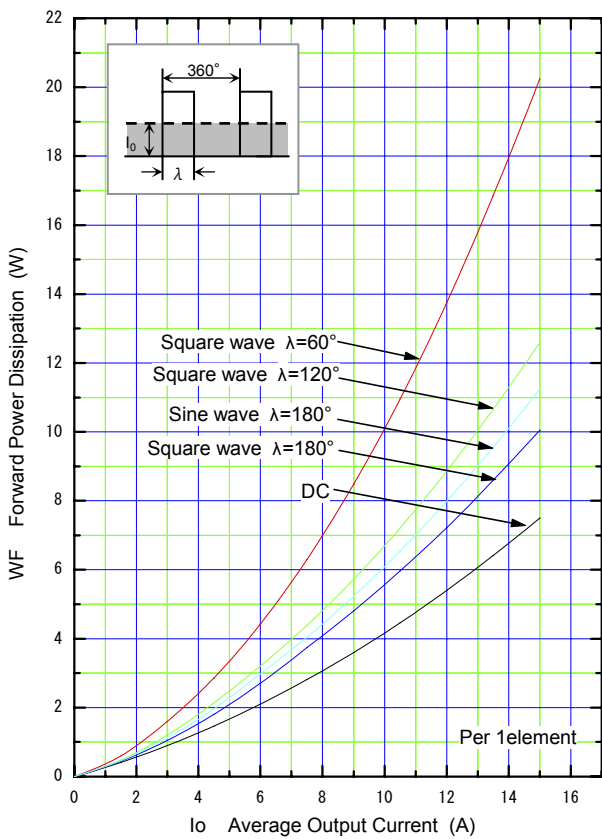
Forward Characteristic (typ.)



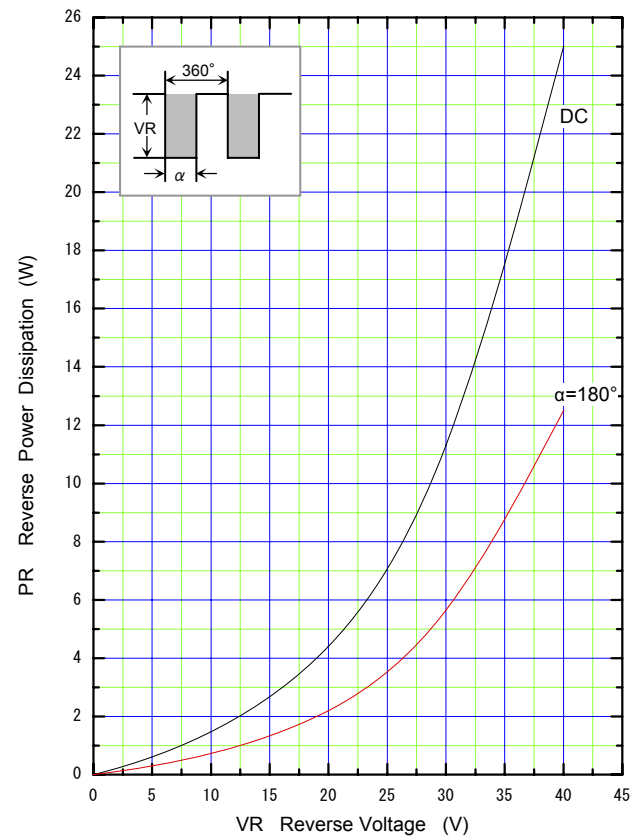
Reverse Characteristic (typ.)

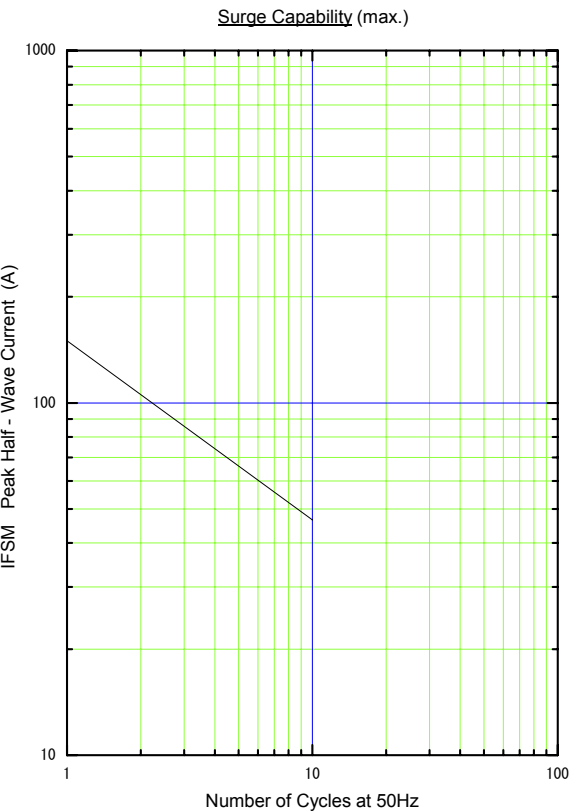
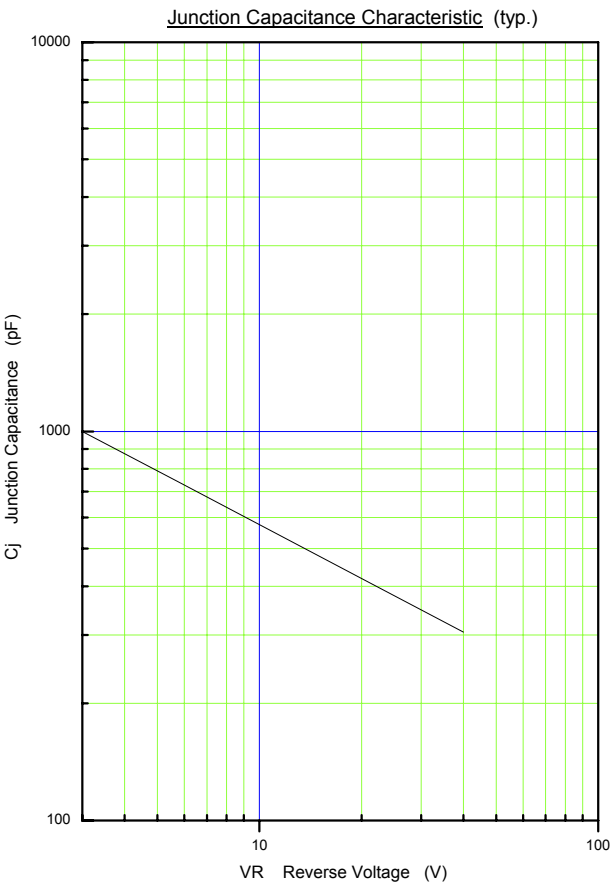
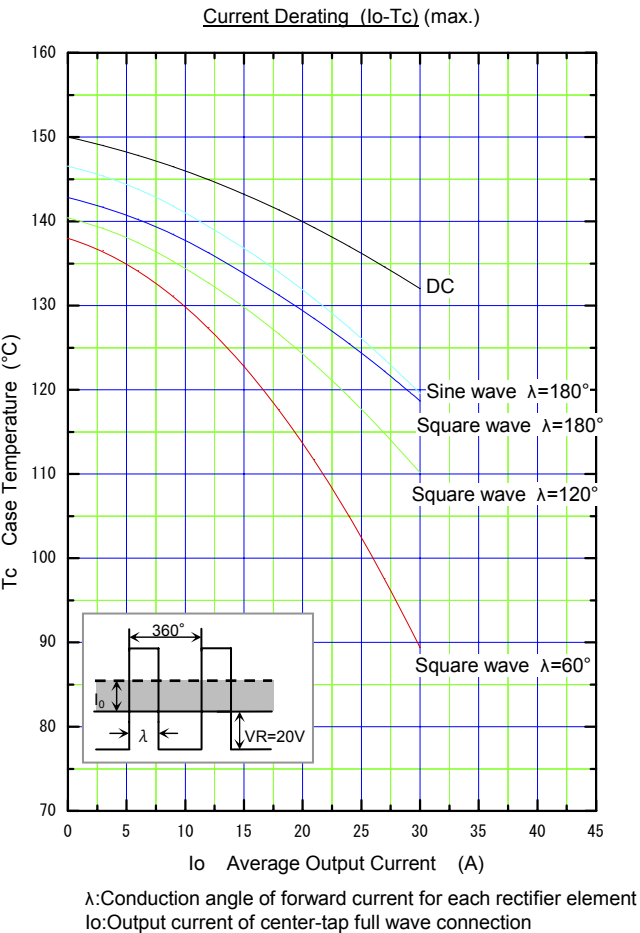


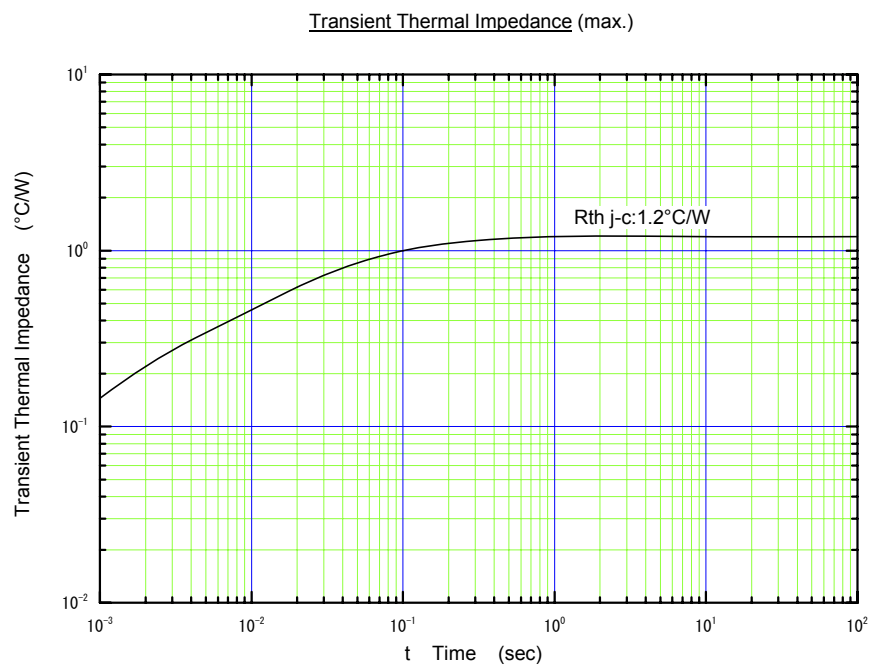
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







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• Emergency equipment for responding to disasters and anti-burglary devices	• Safety devices
• Medical equipment	
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• Submarine repeater equipment		
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