

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	T_J	-	150	°C
Storage temperature	T_{stg}	-	-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	$I_F = 12.5 A$	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

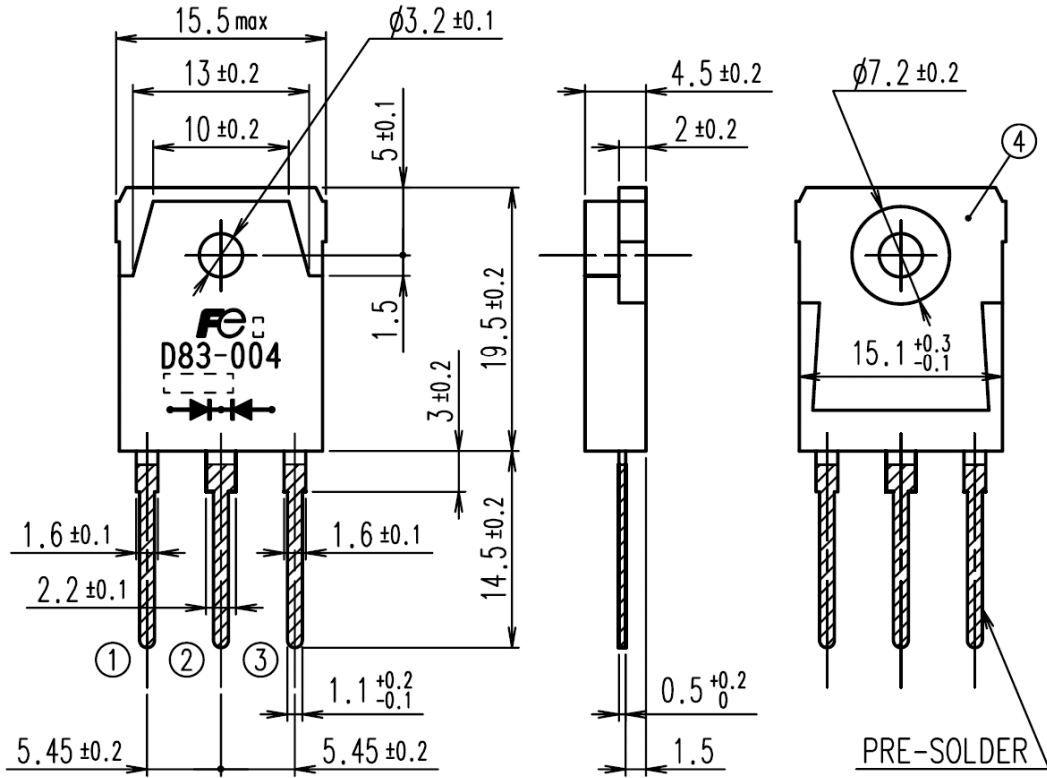
Note*** Rating per element

● Mechanical characteristics

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

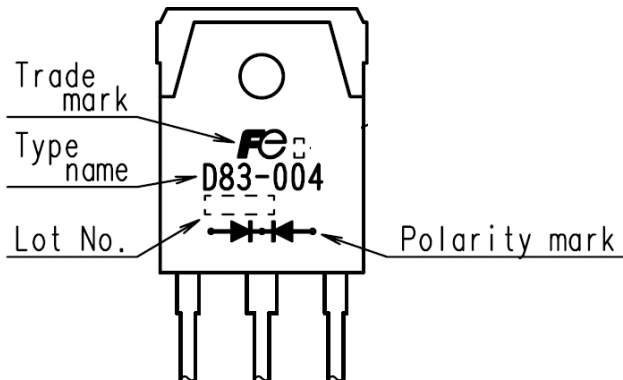
■ Outline Drawings [mm]

OUT VIEW

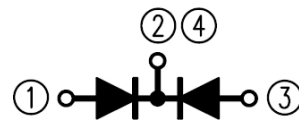


DIMENSIONS ARE IN MILLIMETERS.

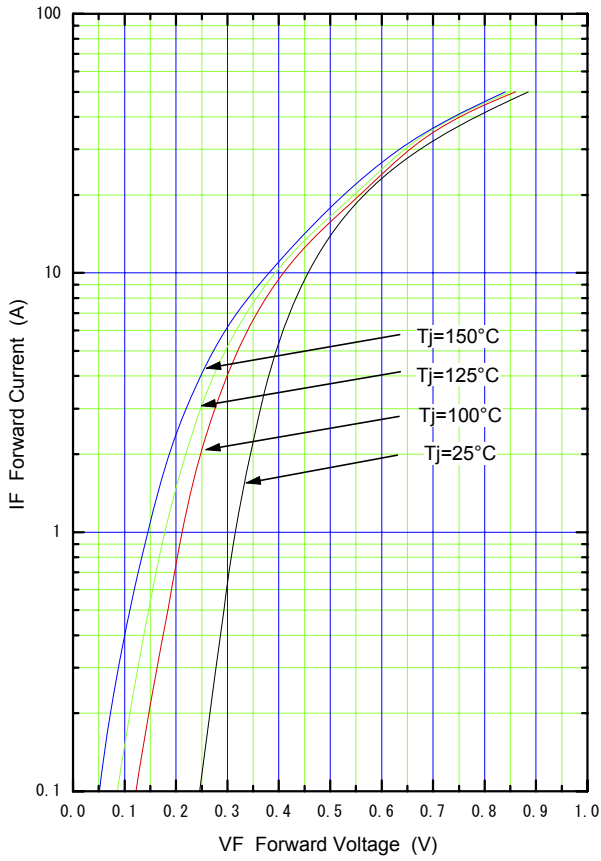
MARKING



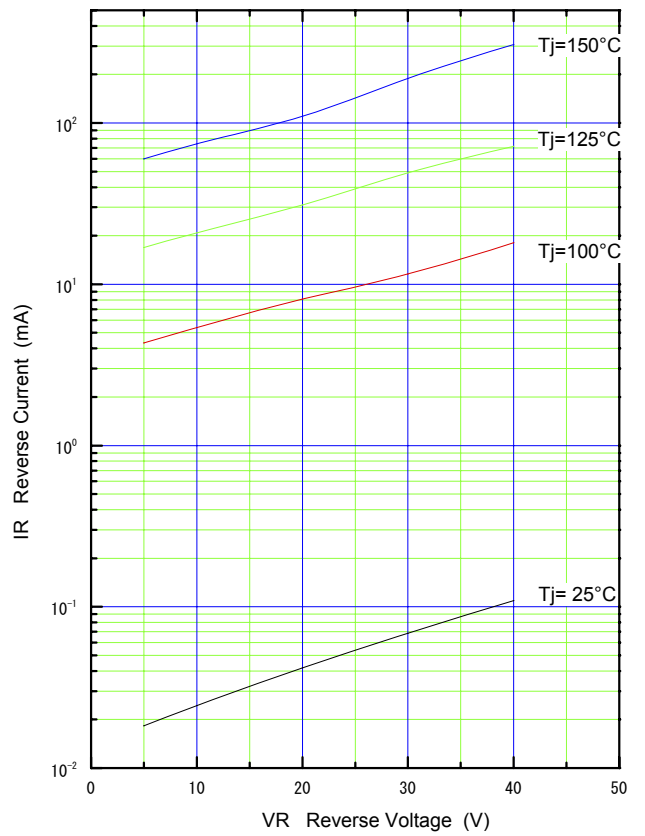
CONNECTION



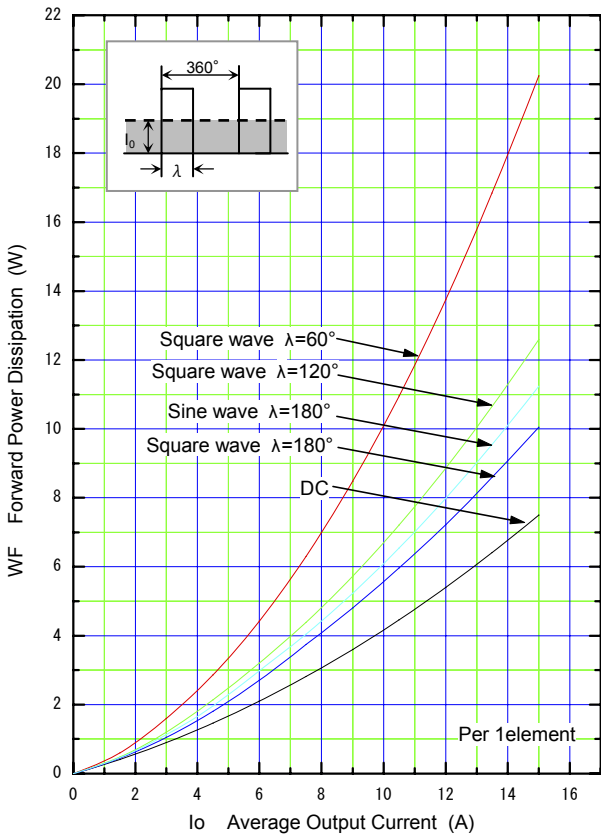
Forward Characteristic (typ.)



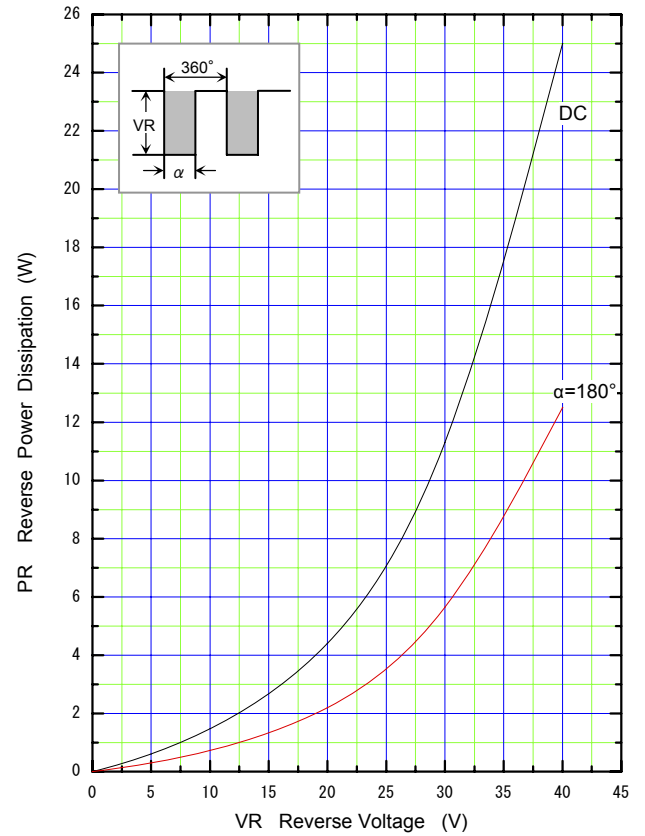
Reverse Characteristic (typ.)



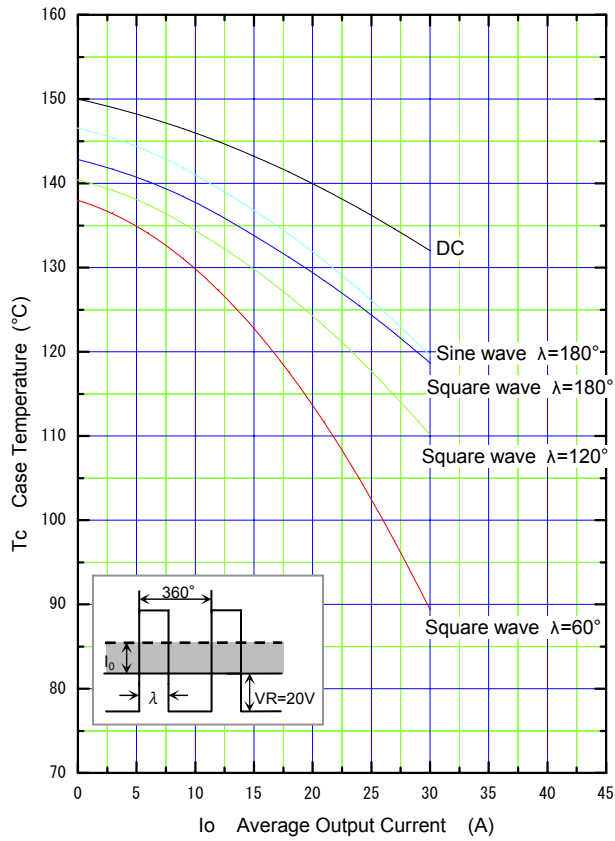
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

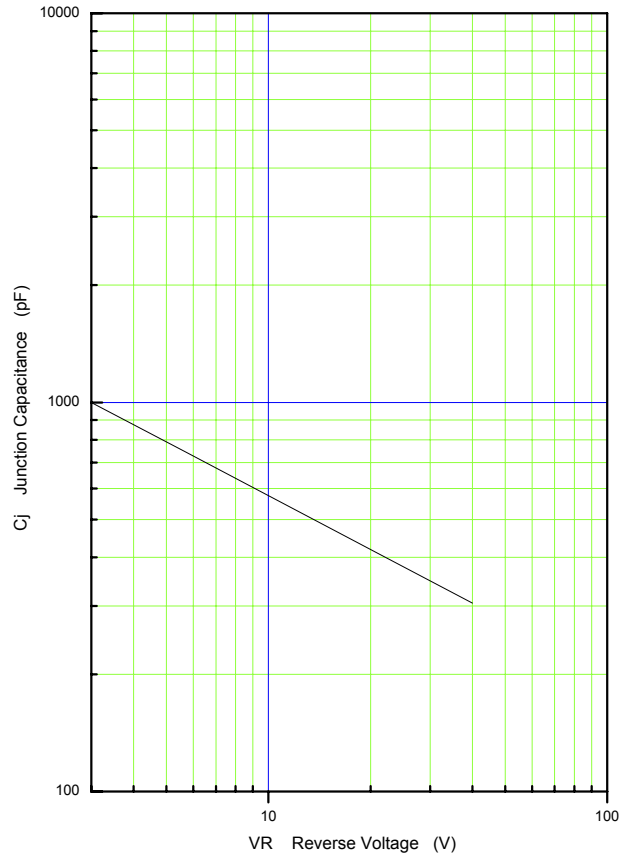


Current Derating (Io-Tc) (max.)

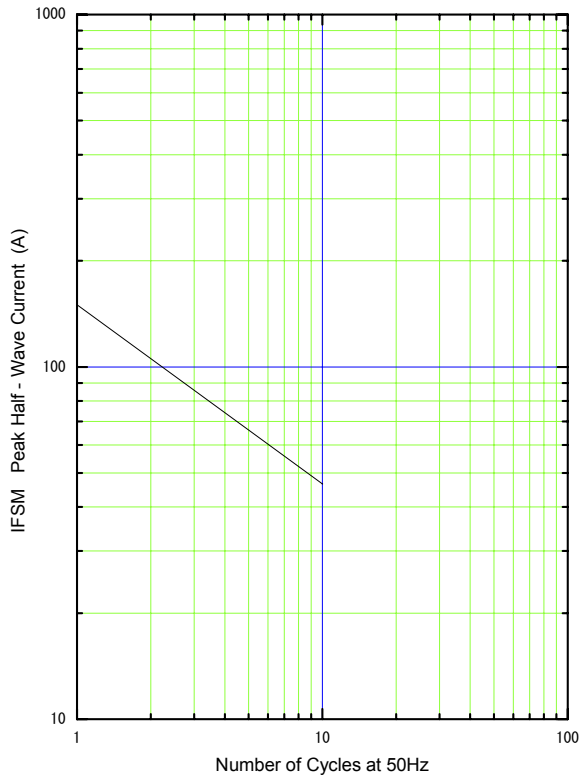


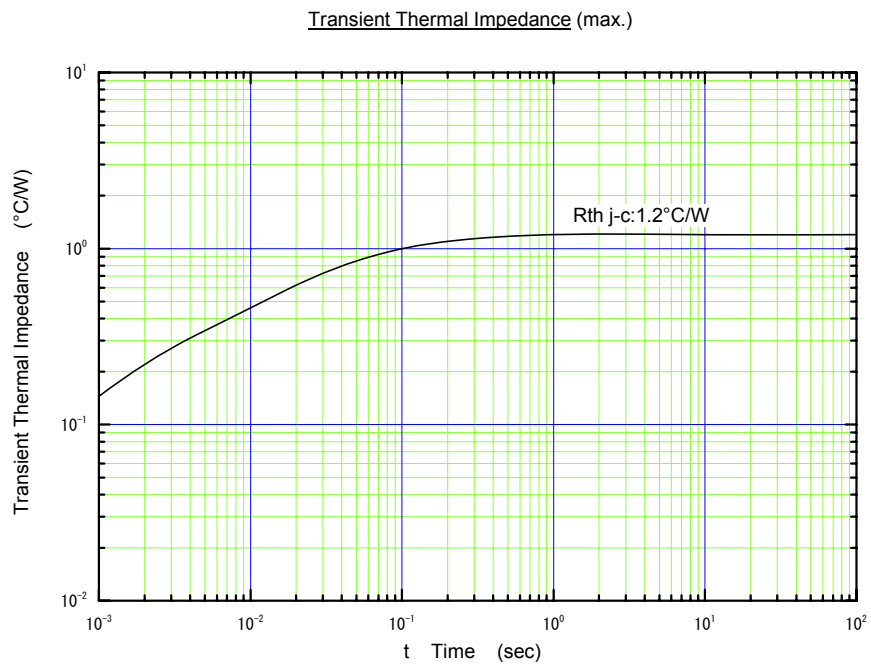
λ: Conduction angle of forward current for each rectifier element
 Io: Output current of center-tap full wave connection

Junction Capacitance Characteristic (typ.)



Surge Capability (max.)





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