

ESAB82-004R

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 = 126°C	5 *	A
Non-repetitive forward surge current**	I_{FSM}	Sine wave, 10ms 1shot	100	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.)

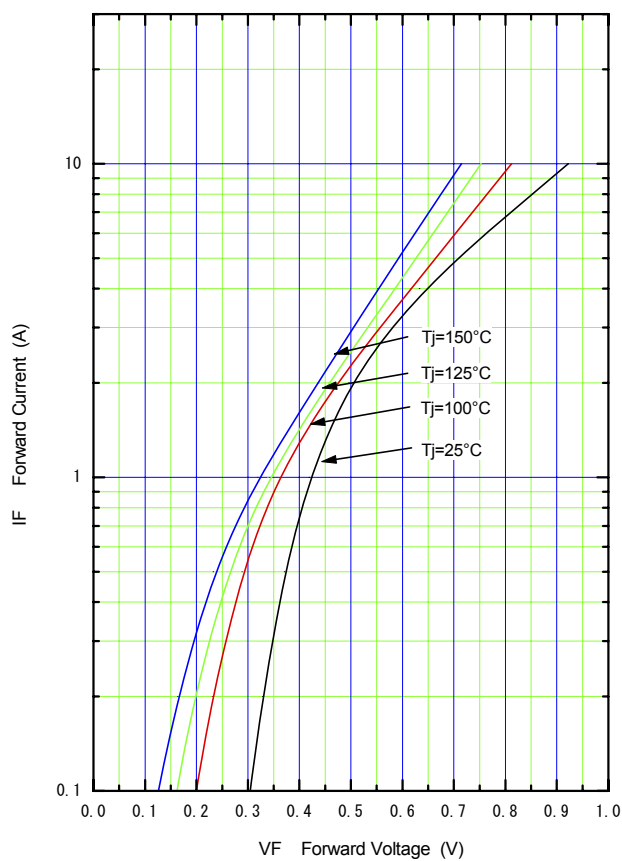
Item	Symbols	Conditions	Maximum	Units
Forward voltage***	V_F	$I_F = 2\text{ A}$	0.55	V
Reverse current***	I_R	$V_R = V_{RRM}$	5	mA
Thermal resistance	Rth(j-c)	Junction to case	5	°C/W

Note*** Rating per element

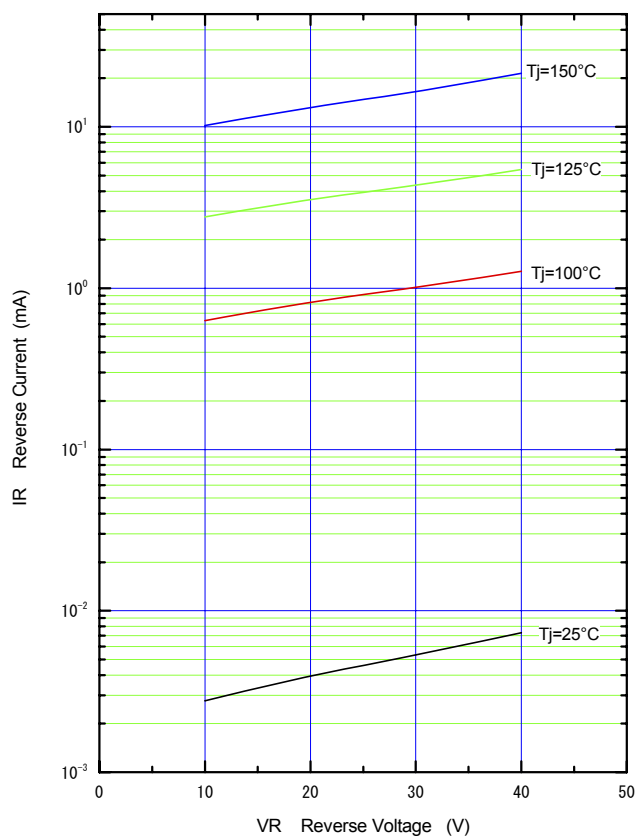
● Mechanical characteristics

Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.3 to 0.5	N•m
Approximate mass	-	2	g

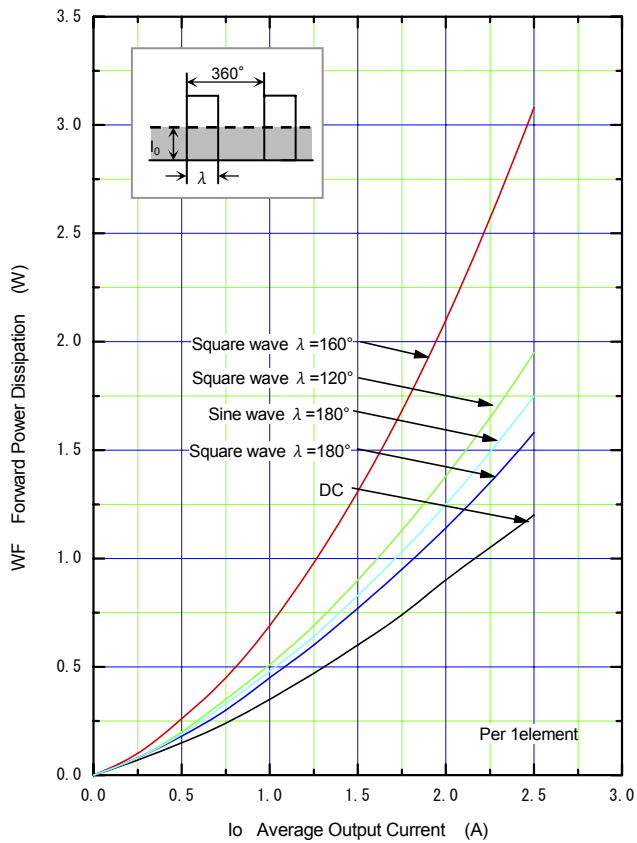
Forward Characteristic (typ.)



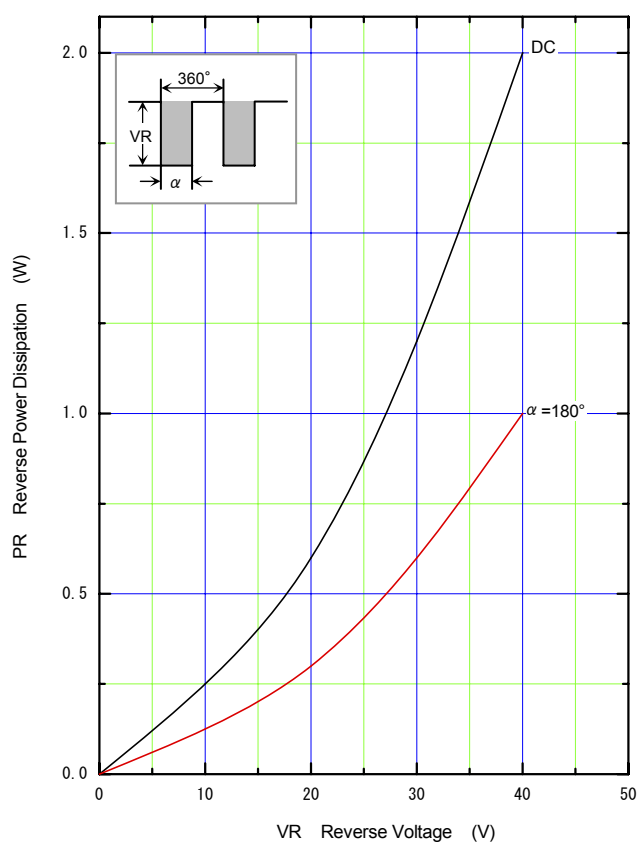
Reverse Characteristic (typ.)

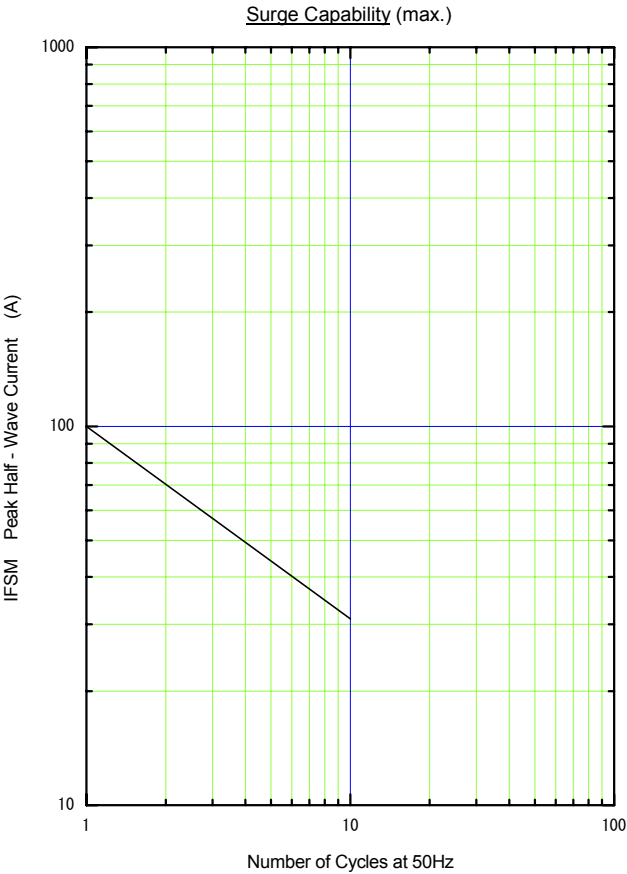
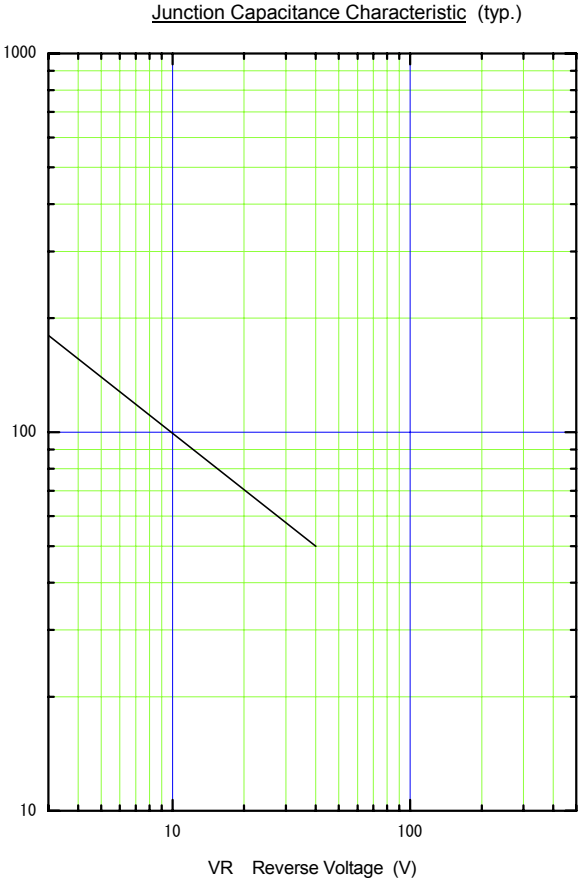
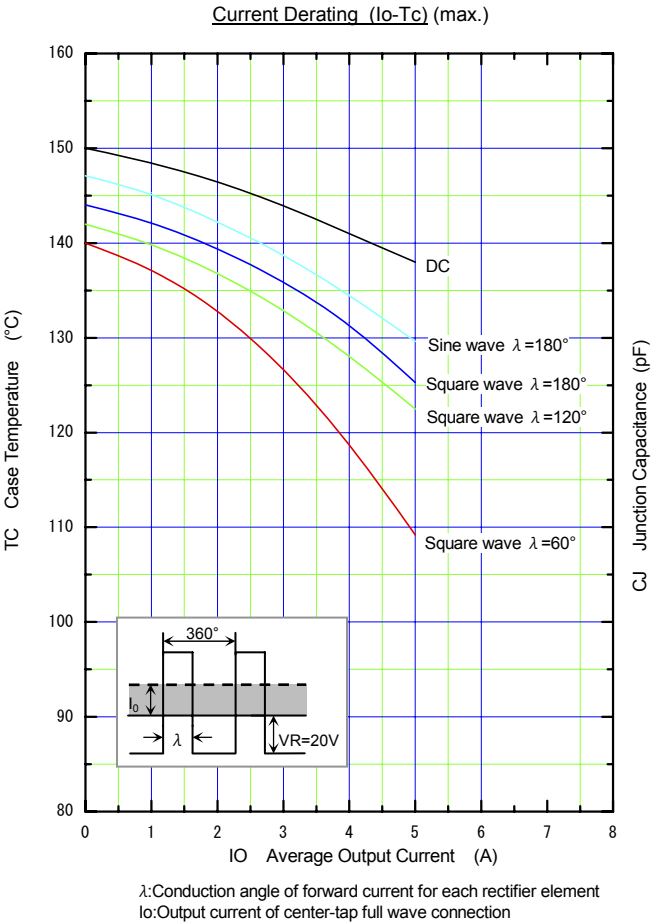


Forward Power Dissipation (max.)

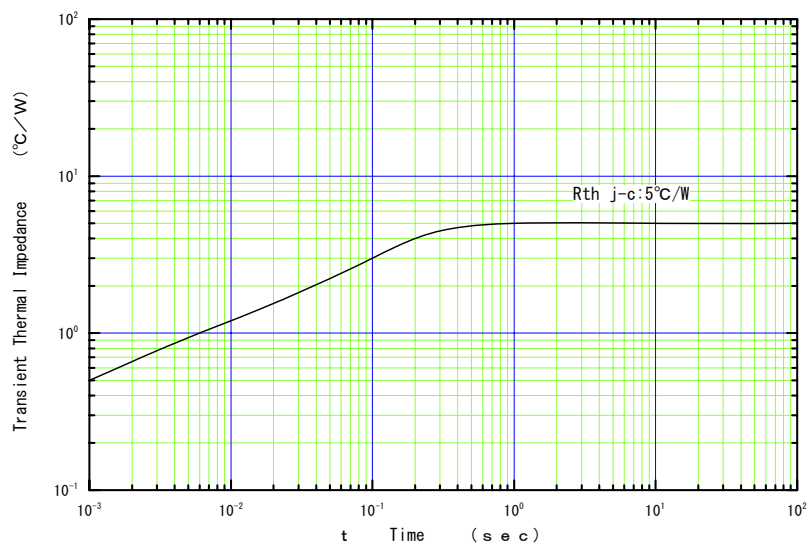


Reverse Power Dissipation (max.)





Transient Thermal Impedance (max.)



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