

ESAD85M-009RR

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	100	V
Repetitive peak reverse voltage	V_{RRM}	-	90	V
Isolating voltage	Viso	Terminals-to-Case, AC.1min	1500	V
Average output current	I_o	50Hz Square wave duty =1/2 Tc = 105°C	25 *	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	$I_F = 10\text{ A}$	0.9	V
Reverse current***	I_R	$V_R = V_{RRM}$	15	mA
Thermal resistance	Rth(j-c)	Junction to case	1.7	°C/W

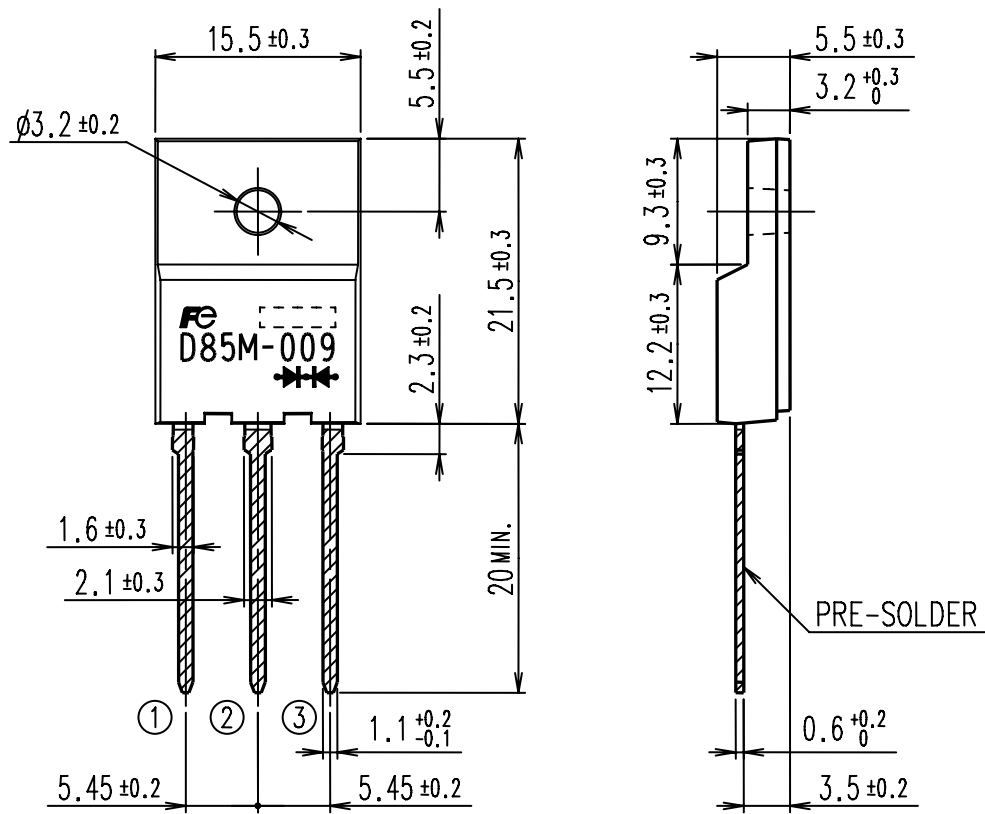
Note*** Rating per element

Mechanical characteristics

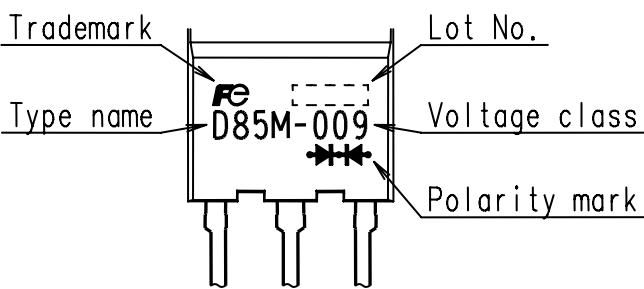
Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4 to 0.6	N•m
Approximate mass	-	6	g

Outline Drawings [mm]

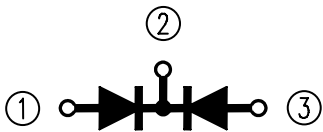
OUT VIEW



MARKING

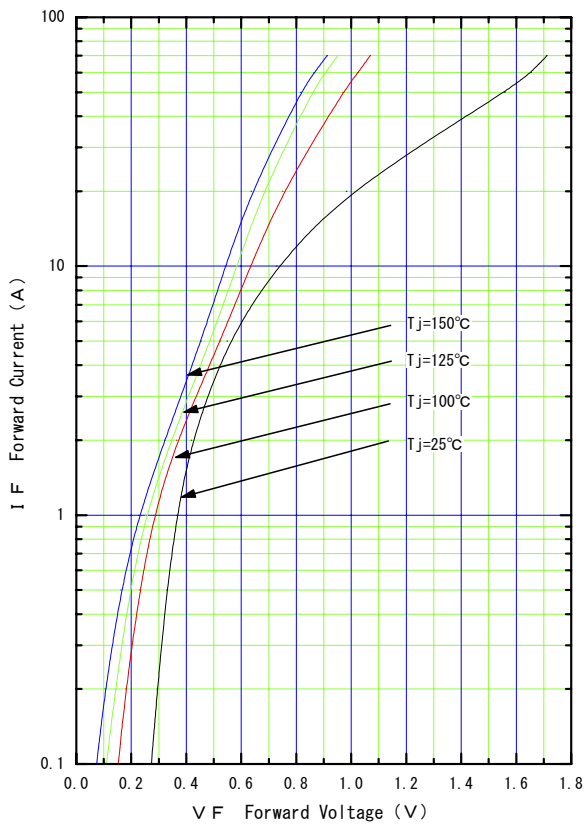


CONNECTION

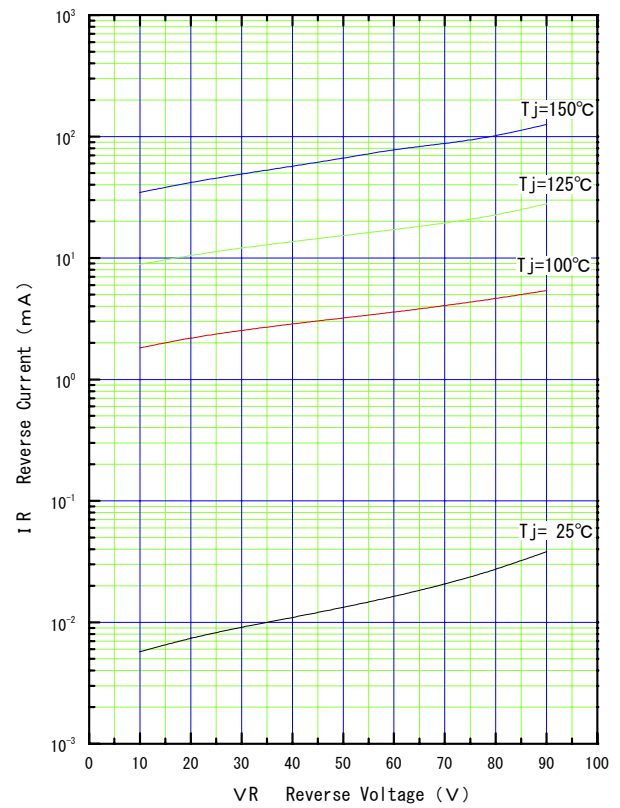


UNIT : mm

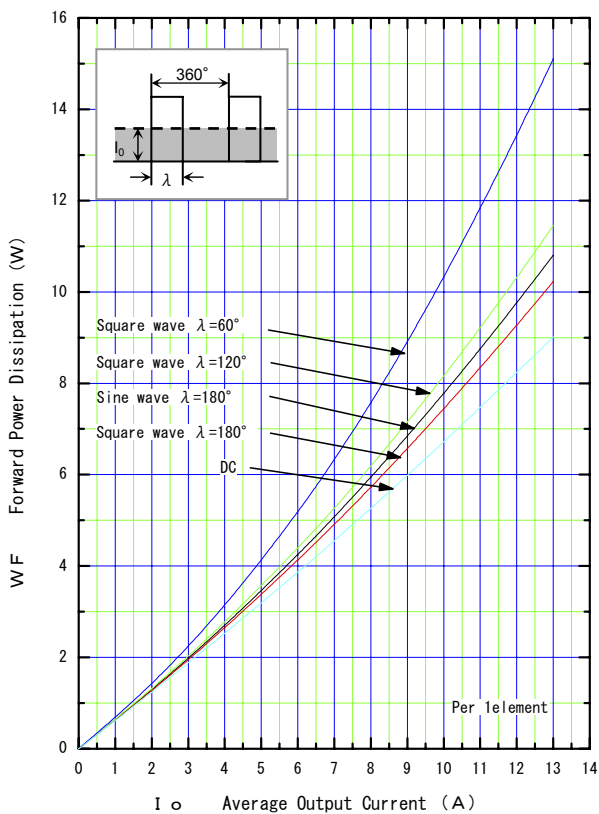
Forward Characteristic (typ.)



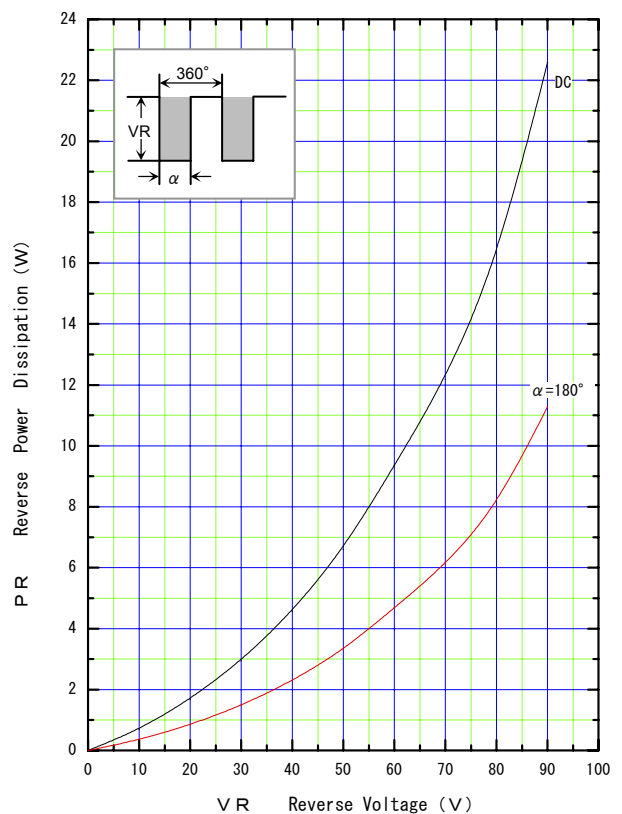
Reverse Characteristic (typ.)

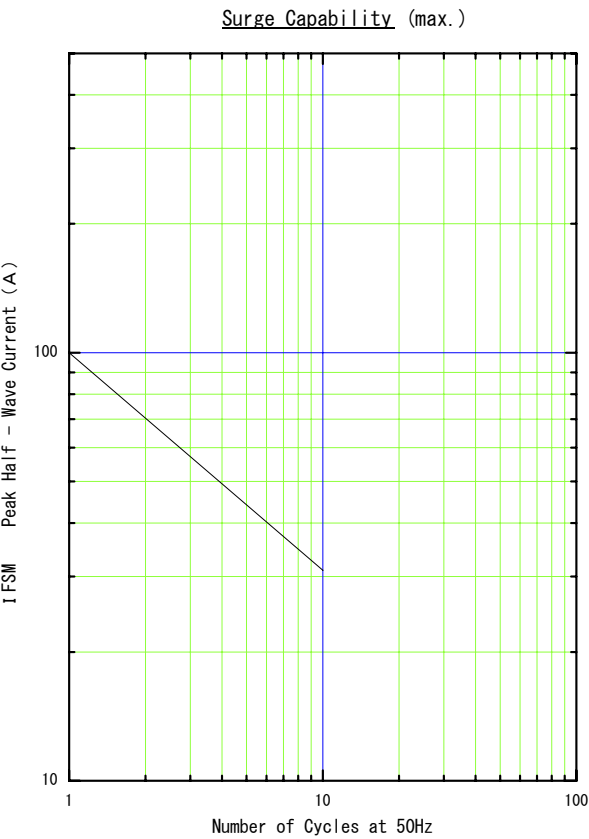
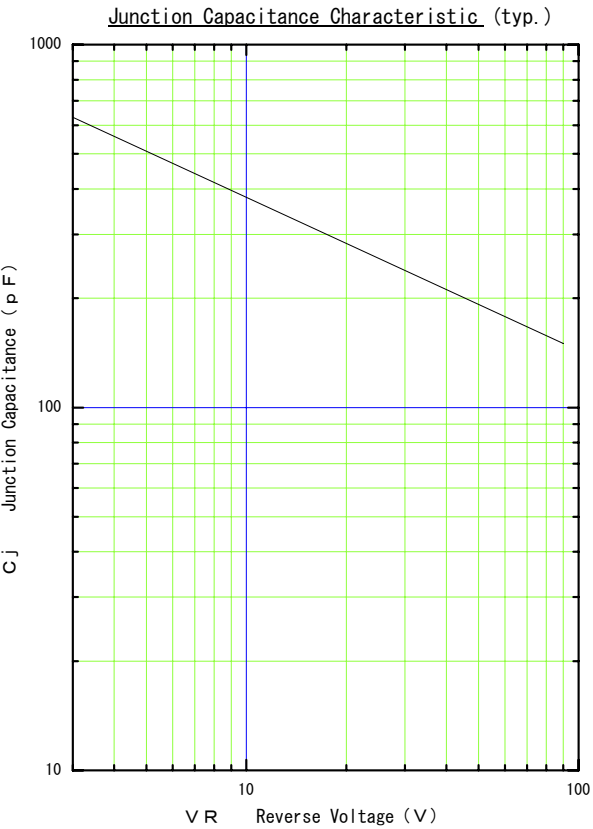
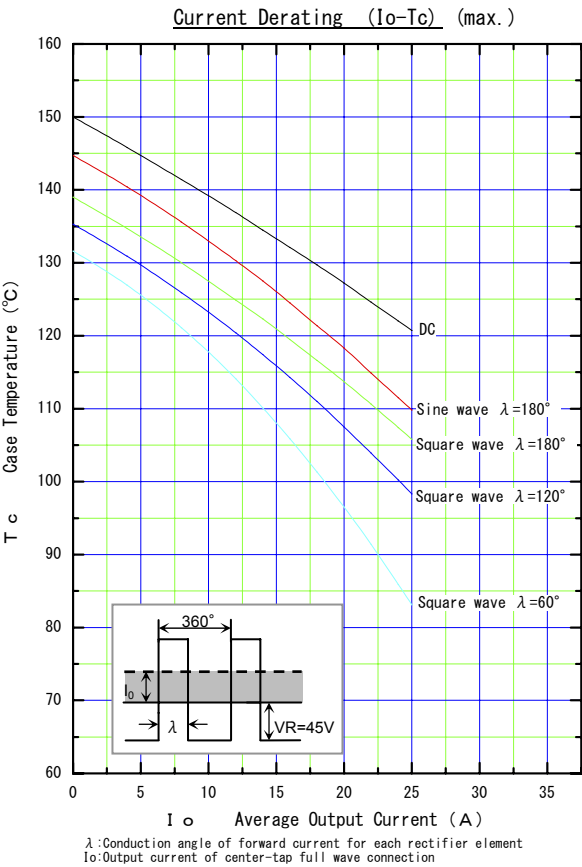


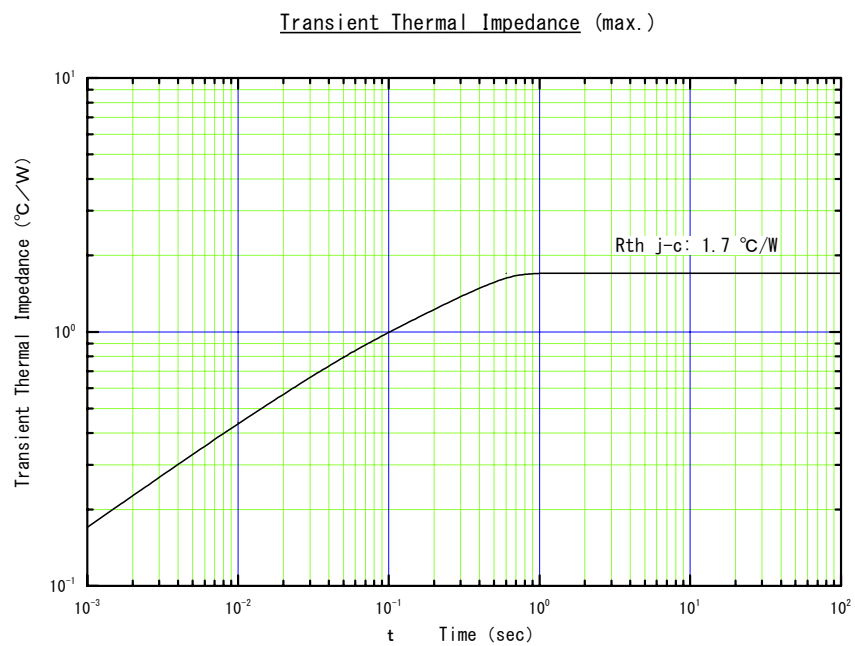
Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)







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