

SD834-04-TE12R

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 reverse voltage	V_{RRM}	-	40	V
Average forward current	I_{FAV}	Square wave duty =1/2 TI = 96 °C	4.0	A
Non-repetitive forward surge current	I_{FSM}	Sine wave, 10ms	70	A
Operating junction temperature	T_j	-	150	°C
Storage temperature	T_{stg}	-	-55 to +150	°C

● Electrical characteristics (at Ta=25°C unless otherwise specified.)

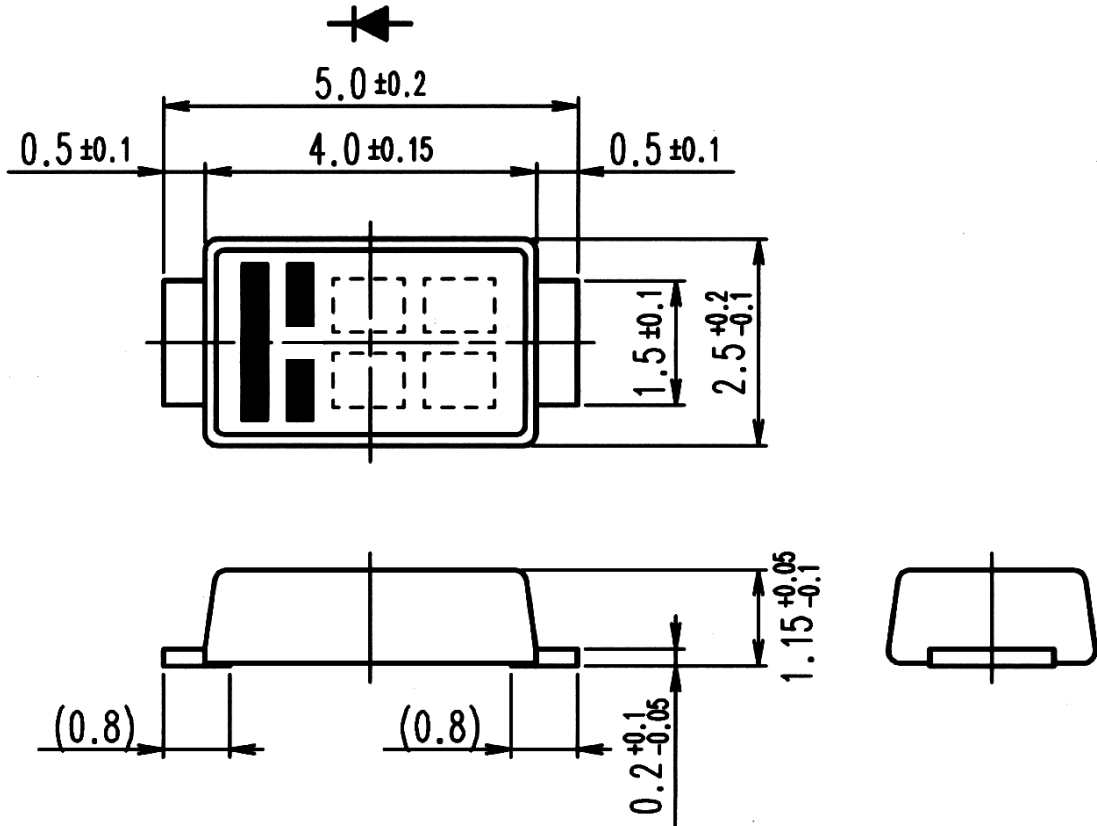
Item	Symbols	Conditions	Maximum	Units
Forward voltage	V_F	$I_F = 4.0 \text{ A}$	0.51	V
Reverse current	I_R	$V_R = V_{RRM}$	1.0	mA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	18	°C/W

● Mechanical characteristics

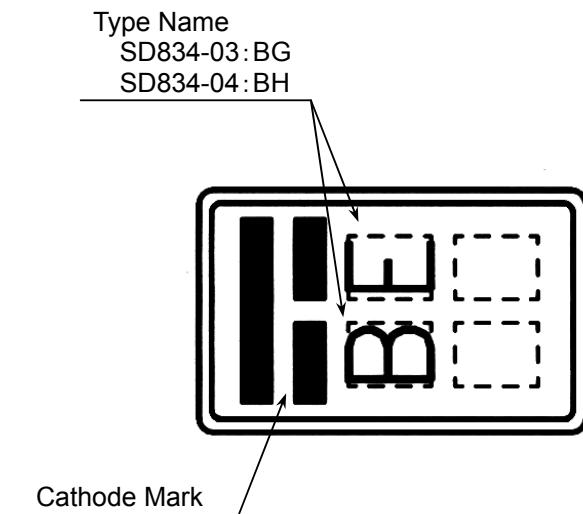
Item	Conditions	Maximum	Units
Approximate mass	-	0.035	g

■ Outline Drawings [mm]

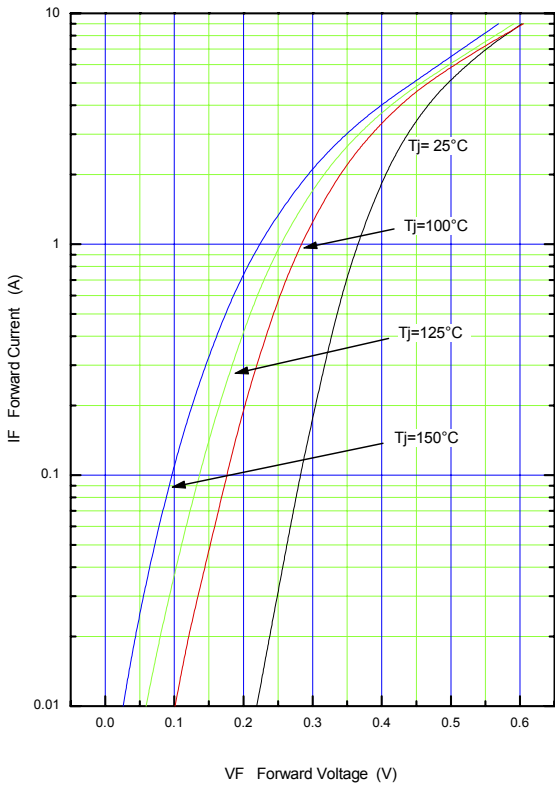
Out view



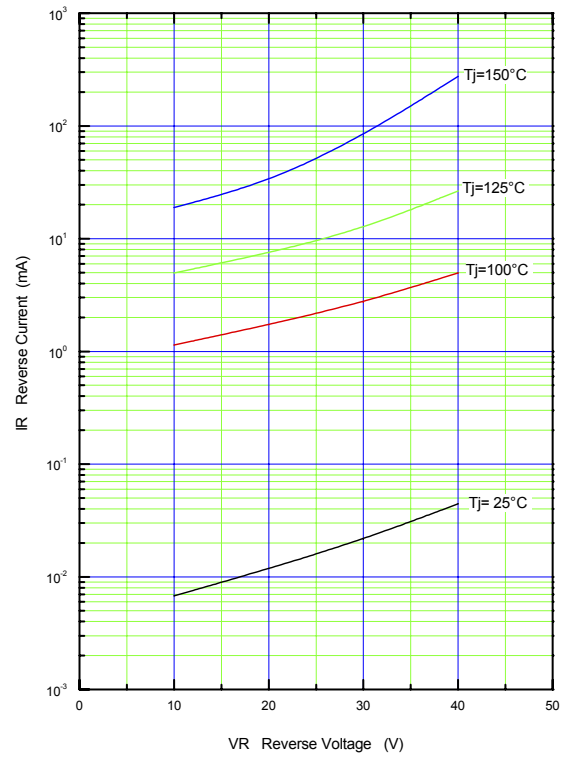
Marking



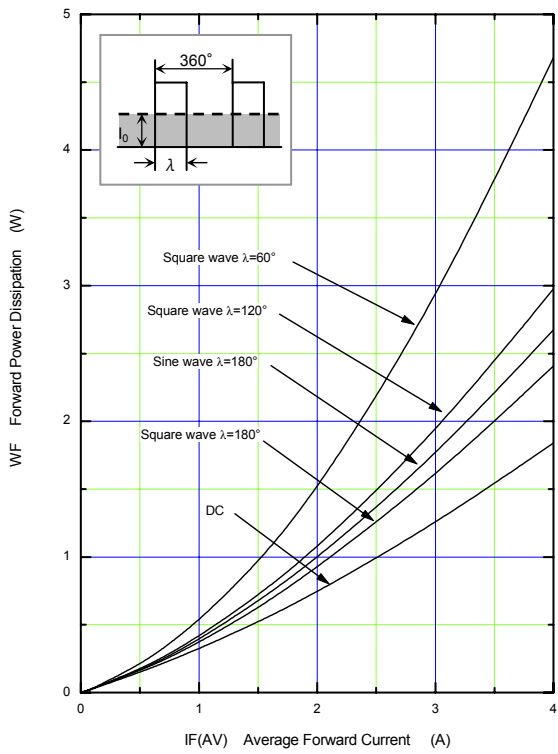
Forward Characteristic (typ.)



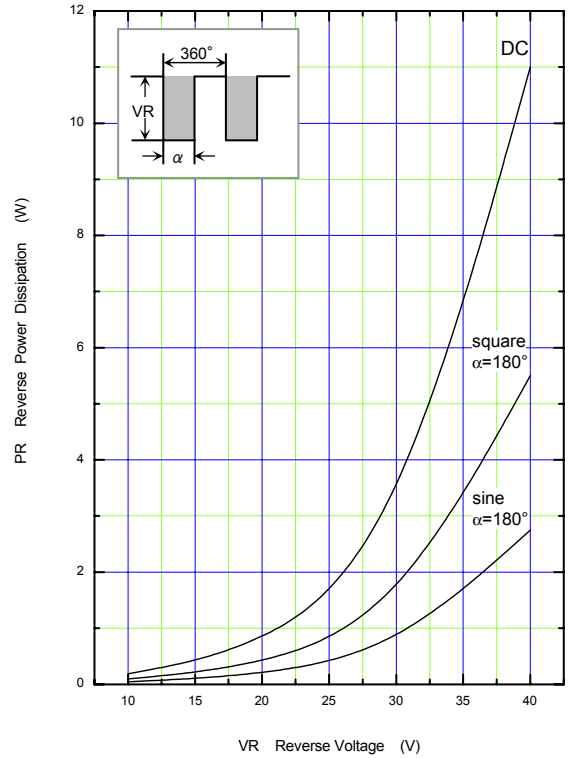
Reverse Characteristic (typ.)



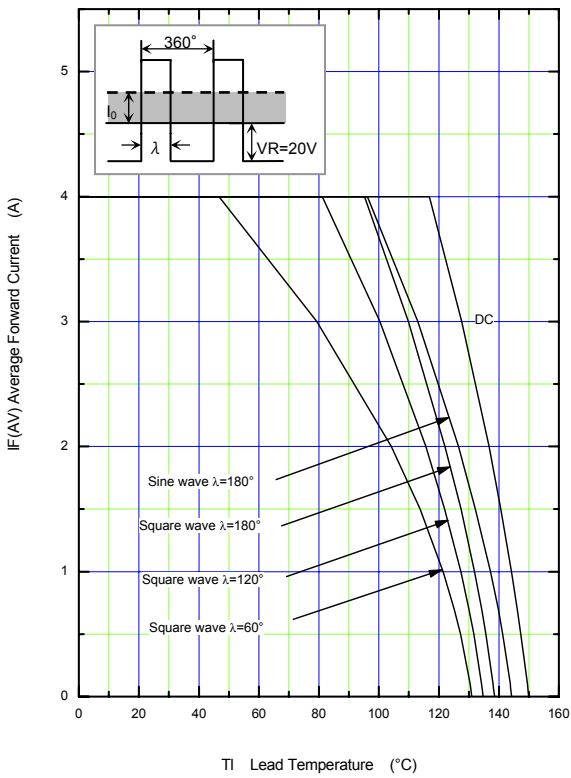
Forward Power Dissipation (max.)



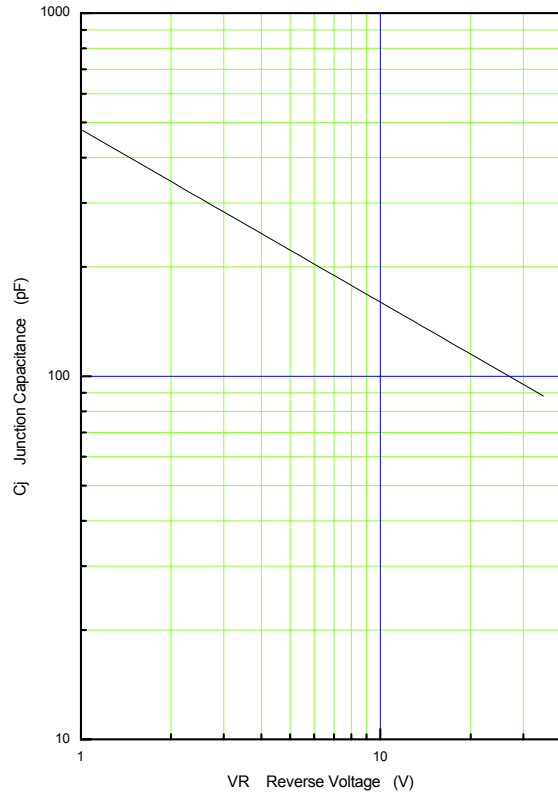
Reverse Power Dissipation (max.)



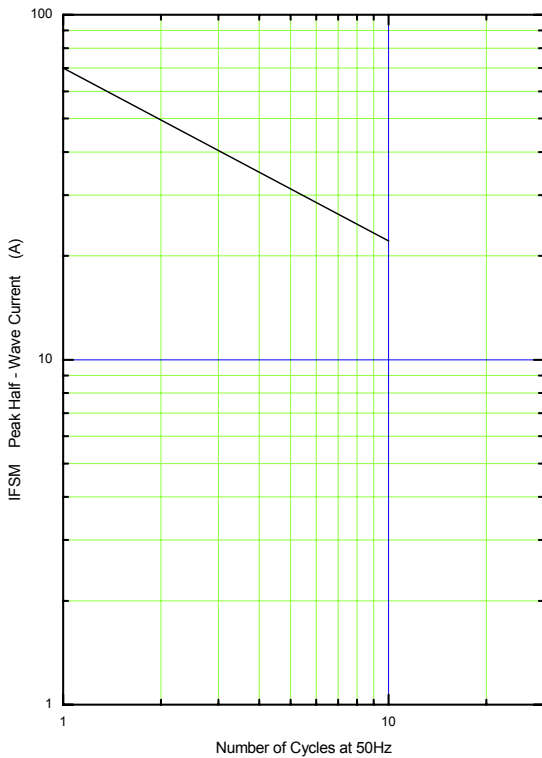
Current Derating (IF(AV)-TI) (max.)



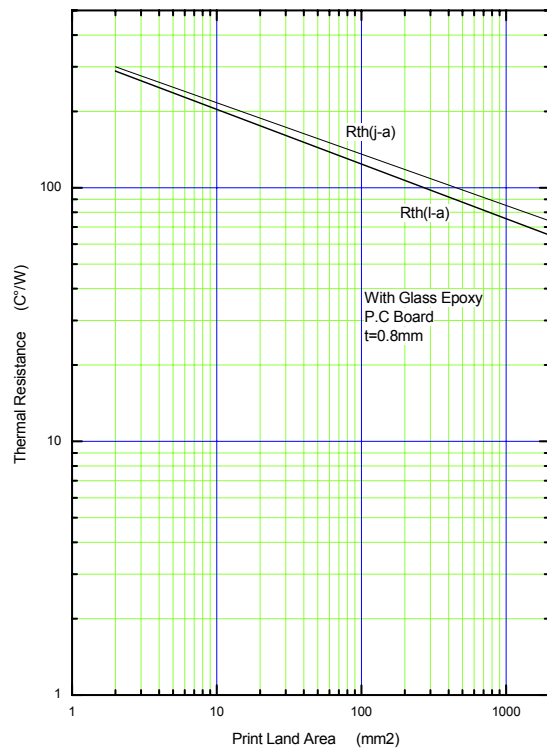
Junction Capacitance Characteristic (typ.)

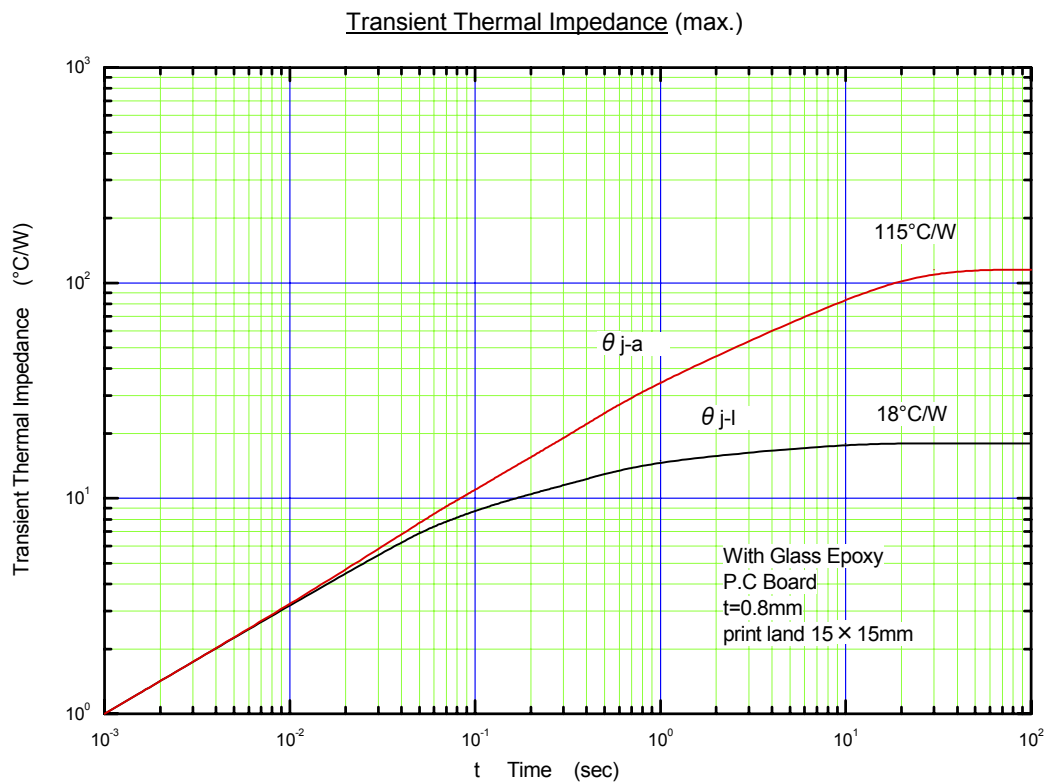


Surge Capability (max.)



Thermal Resistance Print Land (max.)





WARNING

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 - Machine tools
 - Audiovisual equipment
 - Electrical home appliances
 - Personal equipment
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 - Safety devices
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