

SD834-03-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}	-	30	V
Average forward current	I_{FAV}	Square wave duty =1/2 TI = 100°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.)

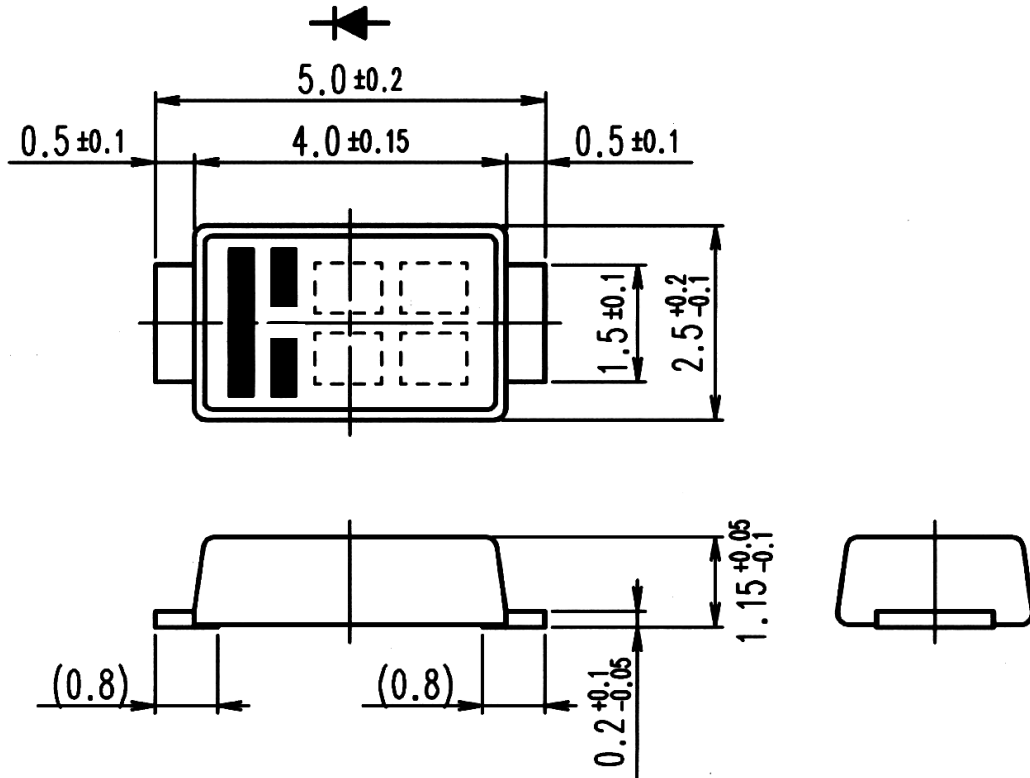
Item	Symbols	Conditions	Maximum	Units
Forward voltage	V_F	$I_F = 4.0 \text{ A}$	0.46	V
Reverse current	I_R	$V_R = V_{RRM}$	1.0	μA
Thermal resistance	$R_{th(j-L)}$	Junction to lead	18	°C/W

● Mechanical characteristics

Item	Conditions	Maximum	Units
Approximate mass	-	0.035	g

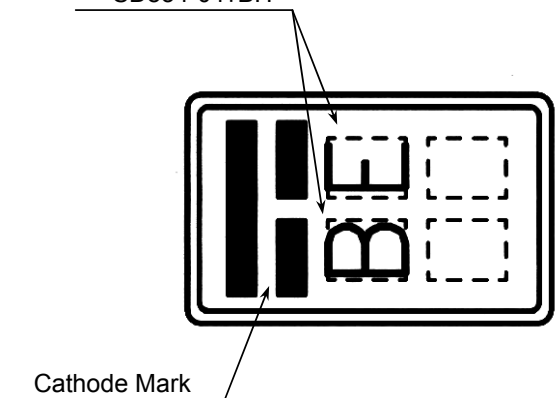
■ Outline Drawings [mm]

Out view

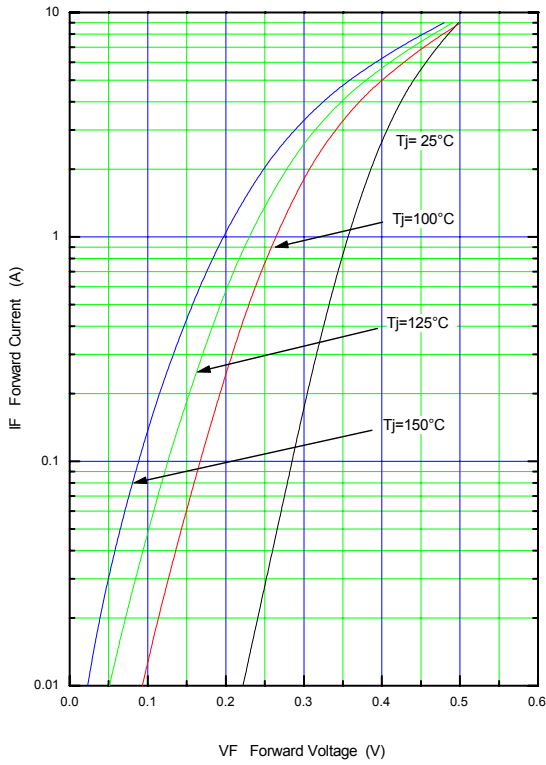


Marking

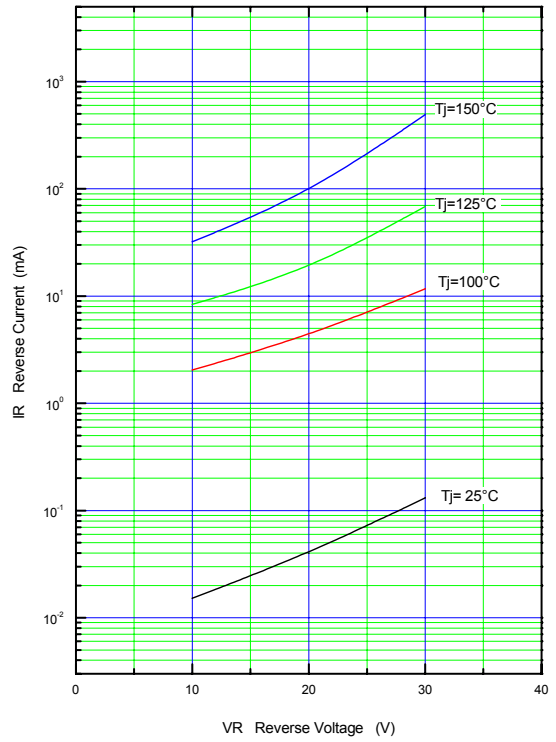
Type Name
SD834-03 : BG
SD834-04 : BH



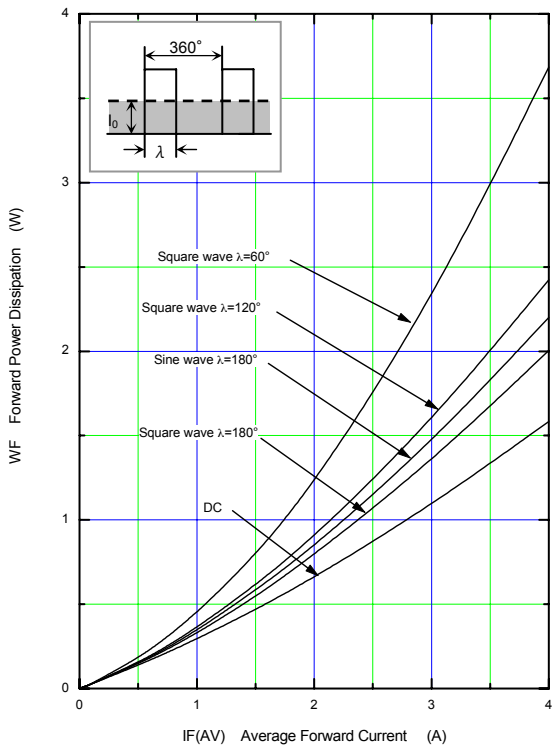
Forward Characteristic (typ.)



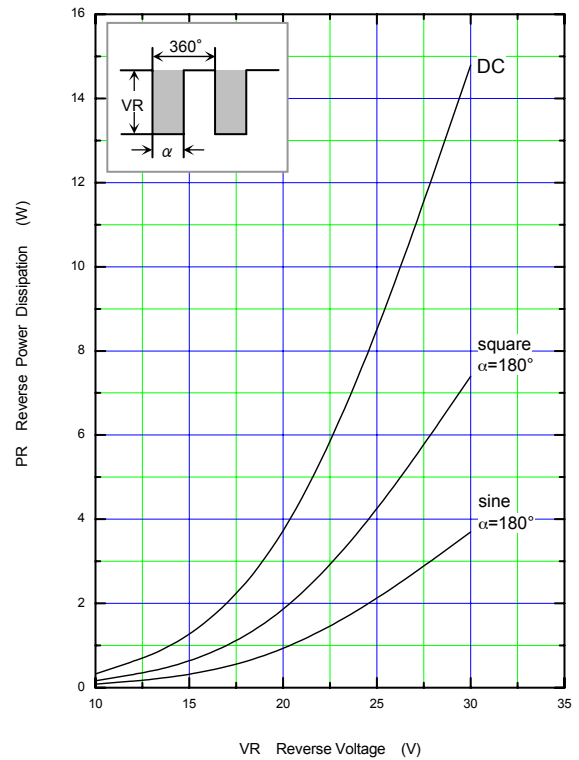
Reverse Characteristic (typ.)



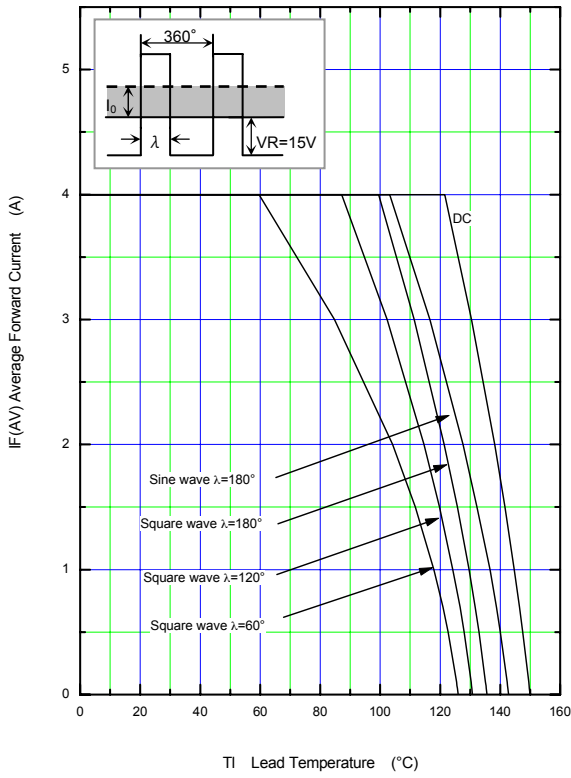
Forward Power Dissipation (max.)



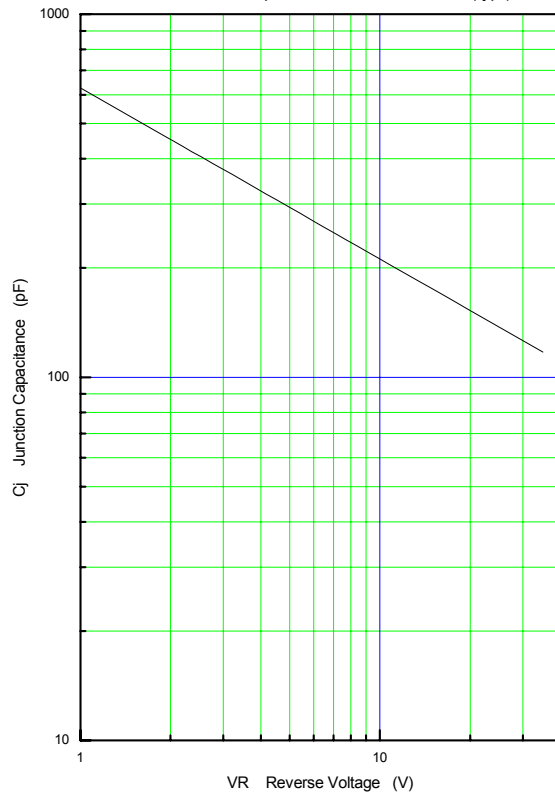
Reverse Power Dissipation (max.)



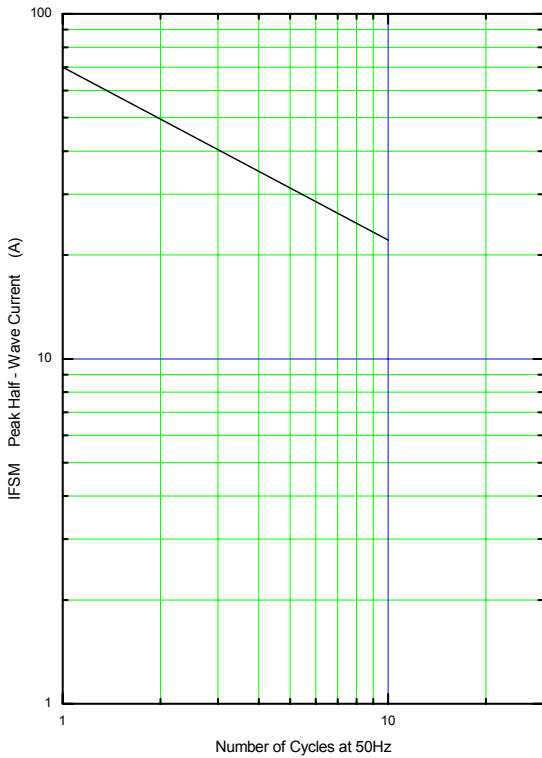
Current Derating (IF(AV)-TI) (max.)



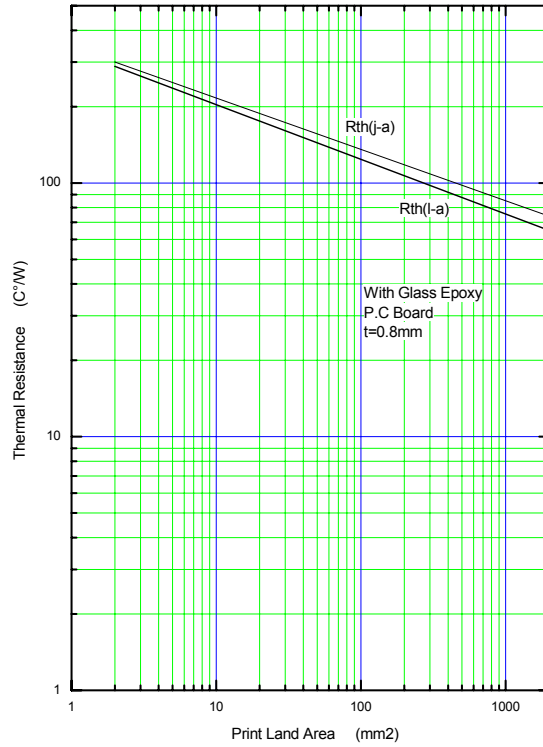
Junction Capacitance Characteristic (typ.)

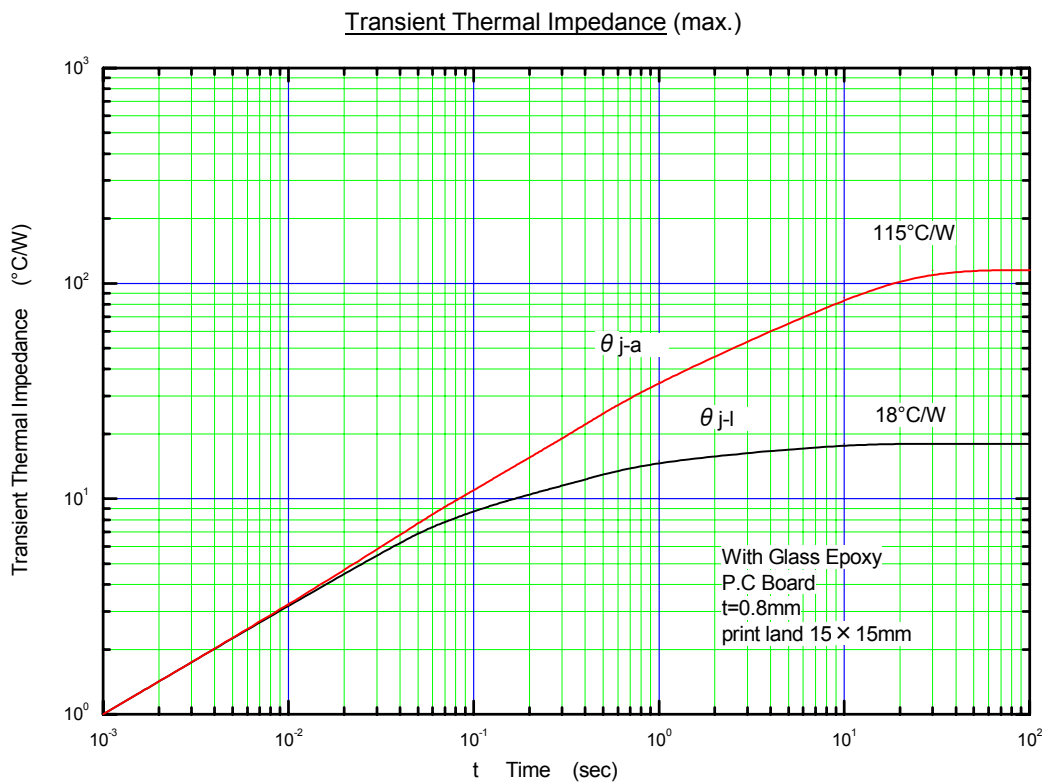


Surge Capability (max.)



Thermal Resistance Print Land (max.)





WARNING

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 - Measurement equipment
 - Machine tools
 - Audiovisual equipment
 - Electrical home appliances
 - Personal equipment
 - Industrial robots etc.
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 - Safety devices
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