

# 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	Tj	-	150	°C
Storage temperature	Tstg	-	-55 to +150	°C

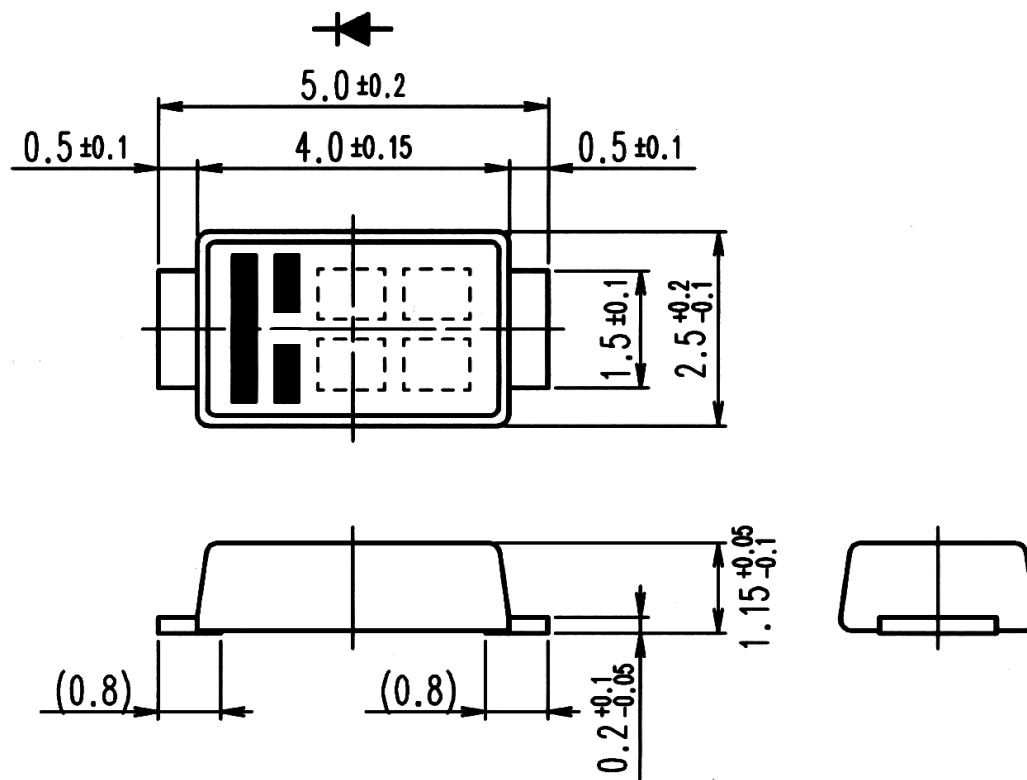
#### ● Electrical characteristics (at Ta=25°C unless otherwise specified.)

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

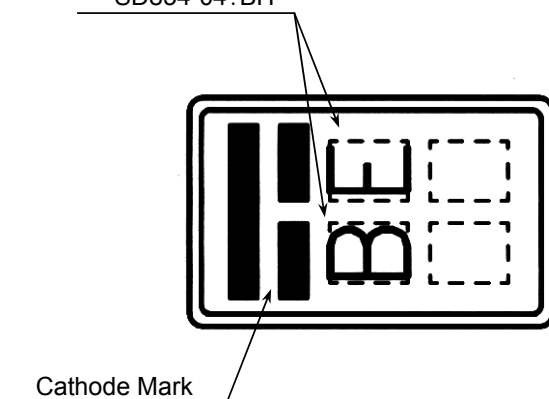
#### ● Mechanical characteristics

Item	Conditions	Maximum	Units
Approximate mass	-	0.035	g

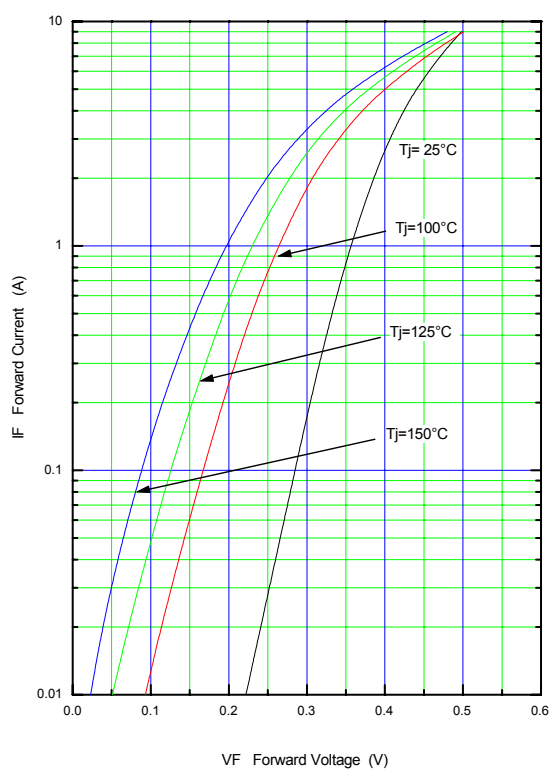
## ■ Outline Drawings [mm]

Out viewMarking

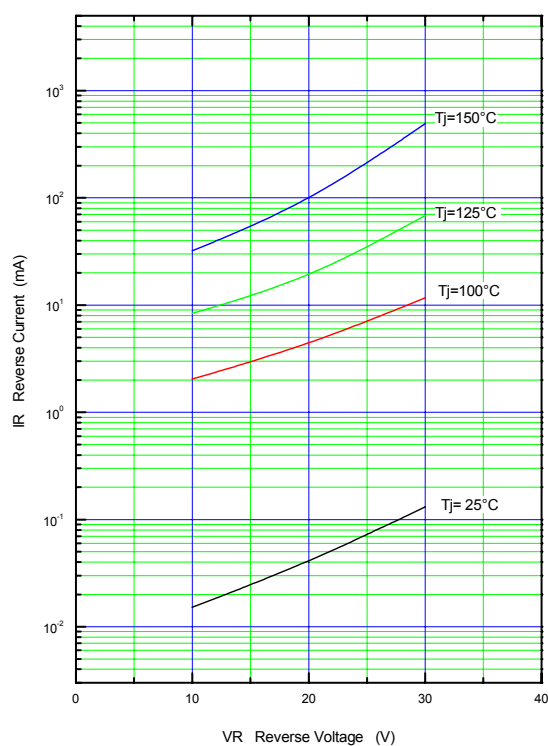
Type Name  
SD834-03: BG  
SD834-04: BH



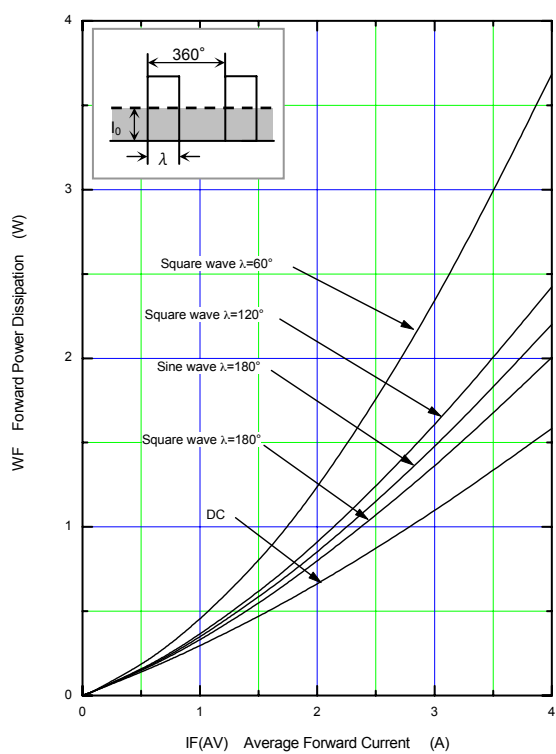
Forward Characteristic (typ.)



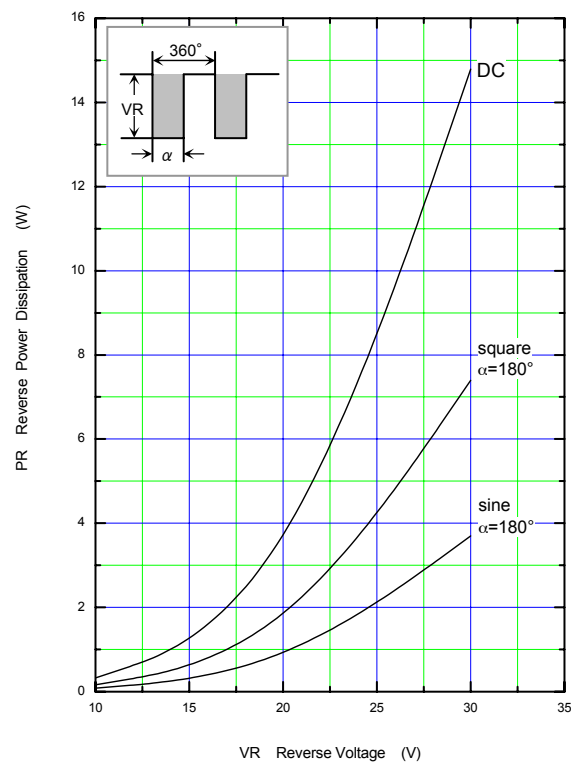
Reverse Characteristic (typ.)



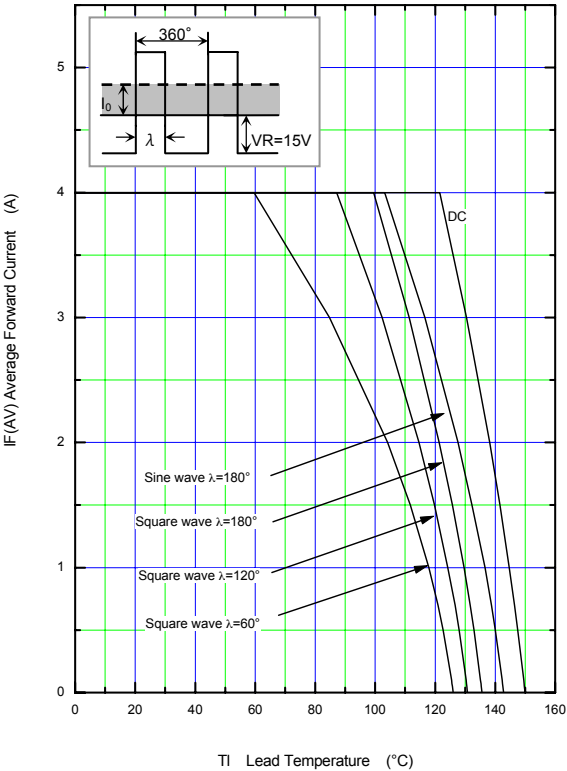
Forward Power Dissipation (max.)



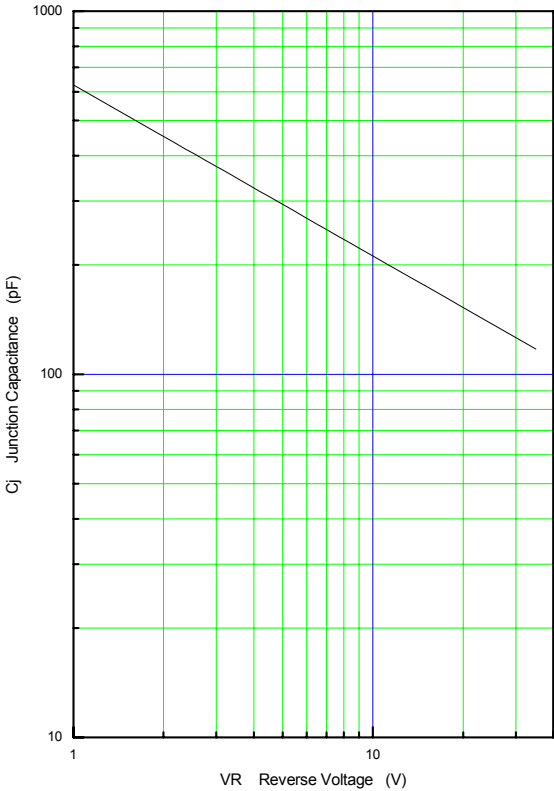
Reverse Power Dissipation (max.)



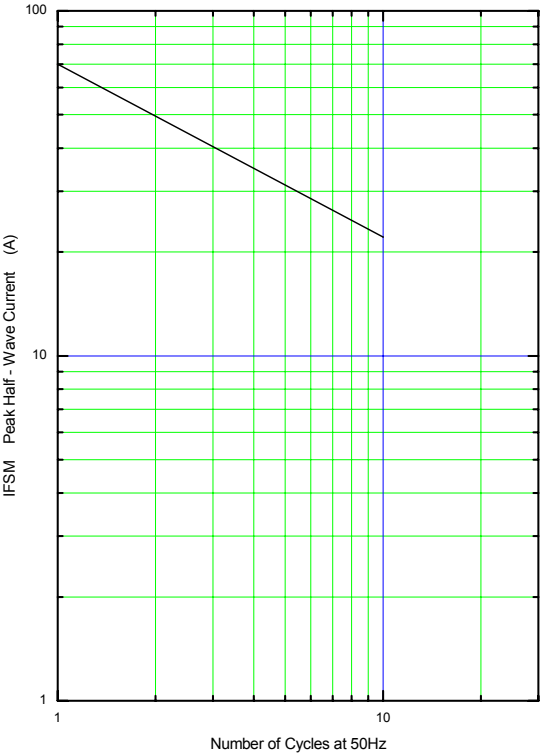
Current Derating (IF(AV)-TI) (max.)



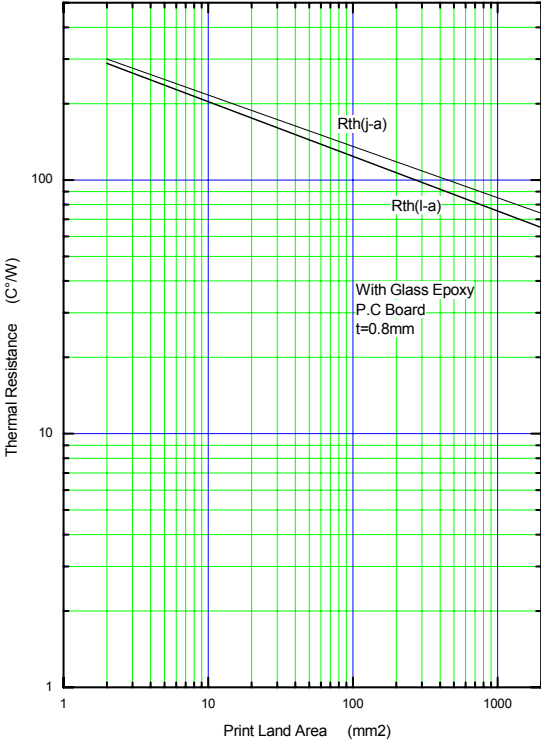
Junction Capacitance Characteristic (typ.)

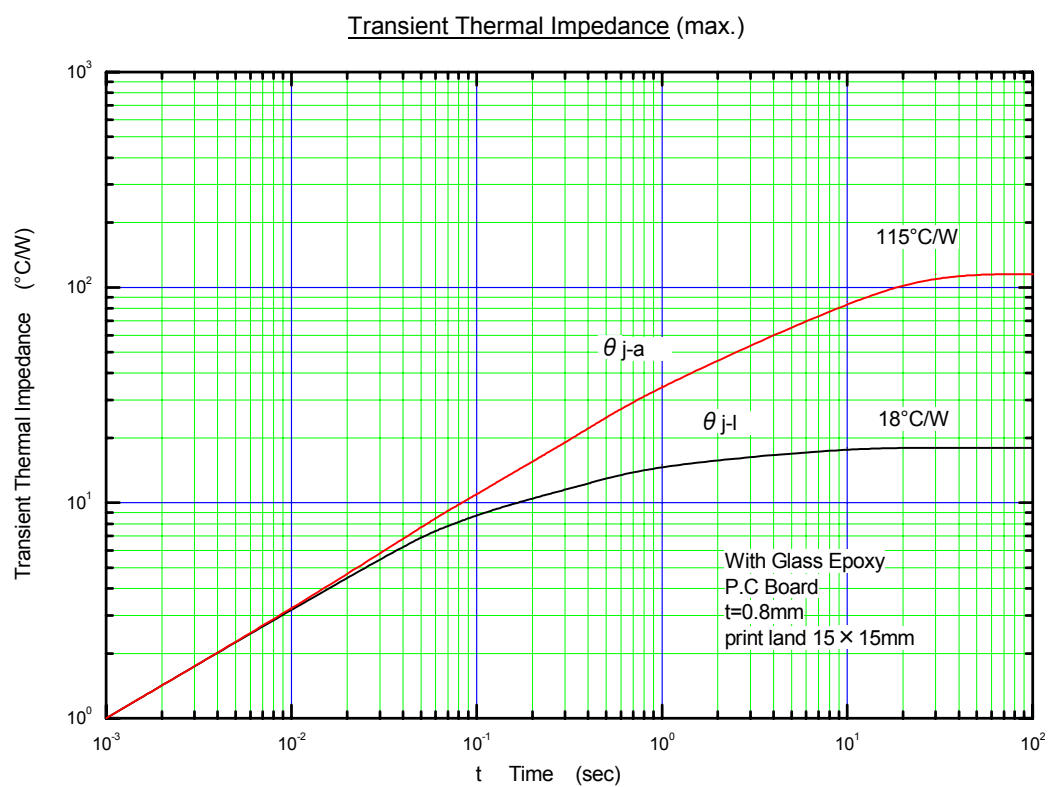


Surge Capability (max.)



Thermal Resistance Print Land (max.)





**WARNING**

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• Machine tools	• Audiovisual equipment	• Electrical home appliances	• Personal equipment
			• Industrial robots etc.
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• Emergency equipment for responding to disasters and anti-burglary devices	• Safety devices
• Medical equipment	
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• Submarine repeater equipment		
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