

# 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 <sub>RRM</sub>	-	30	V
Average forward current	I <sub>FAV</sub>	Square wave duty =1/2 Tl = 100°C	4.0	A
Non-repetitive forward surge current**	I <sub>FSM</sub>	Sine wave, 10ms	70	A
Operating junction temperature	T <sub>j</sub>	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-55 to +150	°C

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

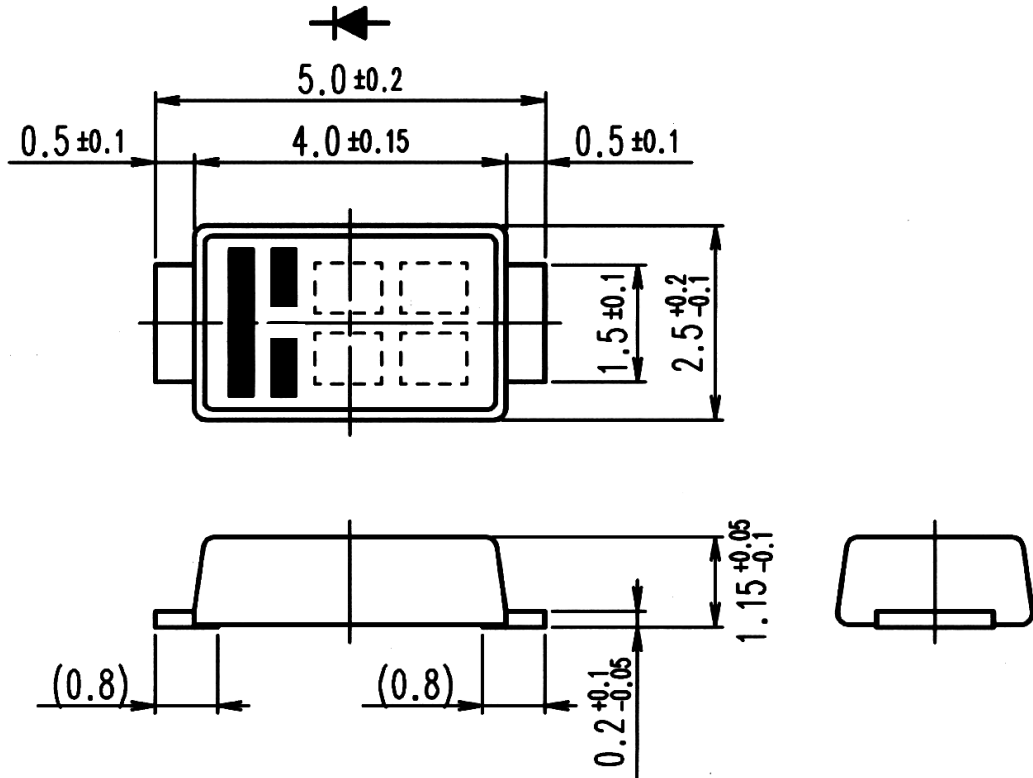
Item	Symbols	Conditions	Maximum	Units
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 4.0 A	0.46	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RRM</sub>	1.0	μA
Thermal resistance	R <sub>th(j-L)</sub>	Junction to lead	18	°C/W

#### ● Mechanical characteristics

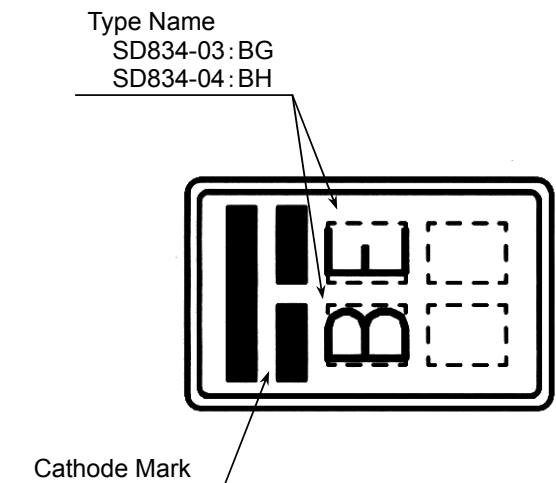
Item	Conditions	Maximum	Units
Approximate mass	-	0.035	g

■ Outline Drawings [mm]

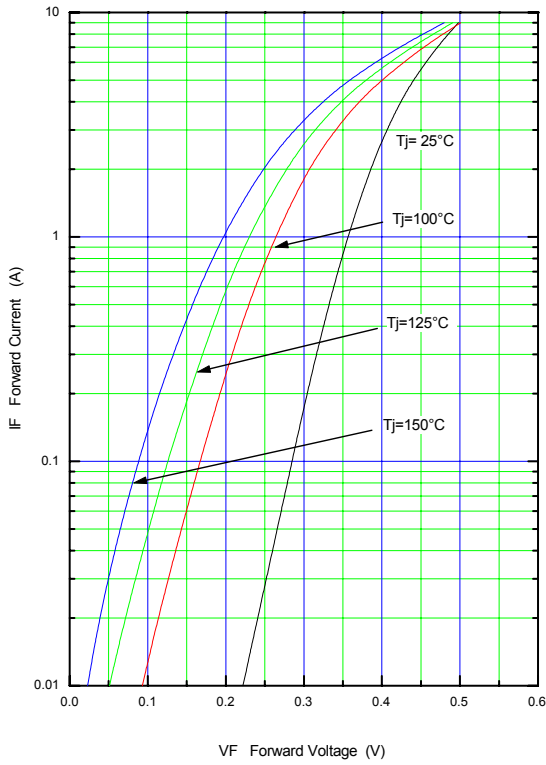
Out view



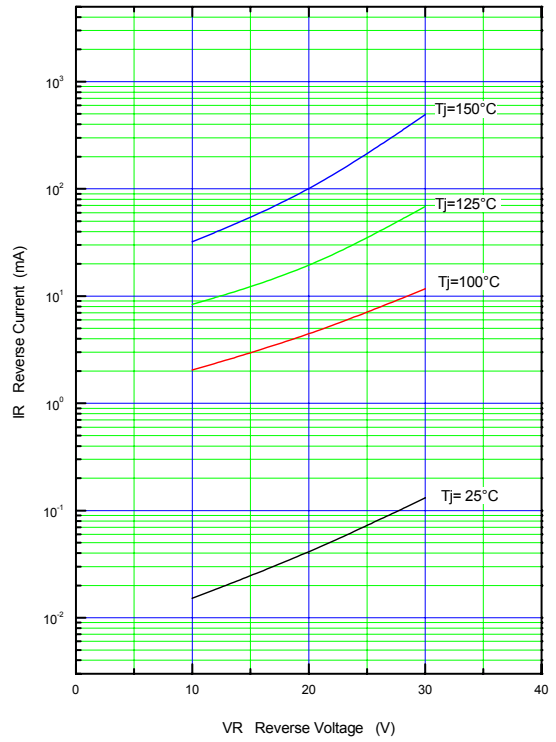
Marking



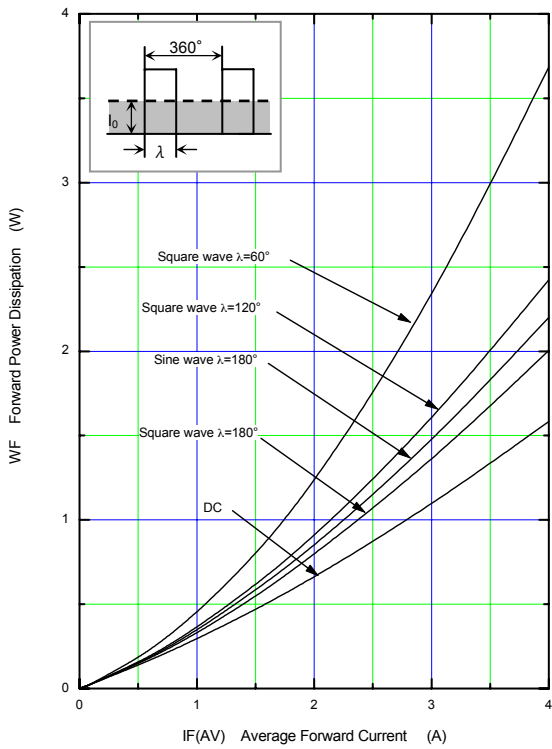
Forward Characteristic (typ.)



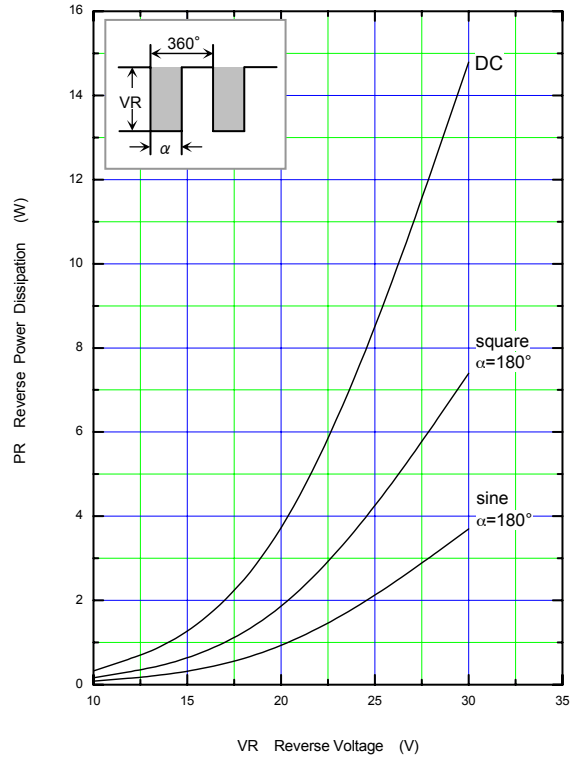
Reverse Characteristic (typ.)



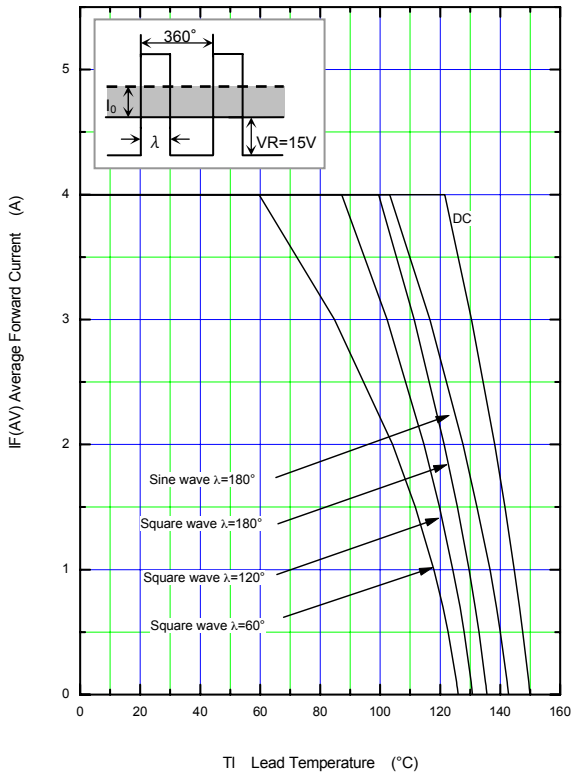
Forward Power Dissipation (max.)



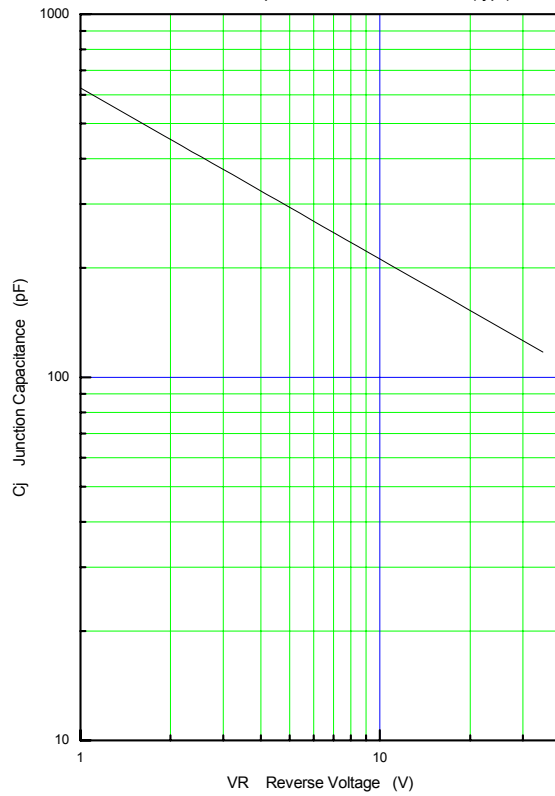
Reverse Power Dissipation (max.)



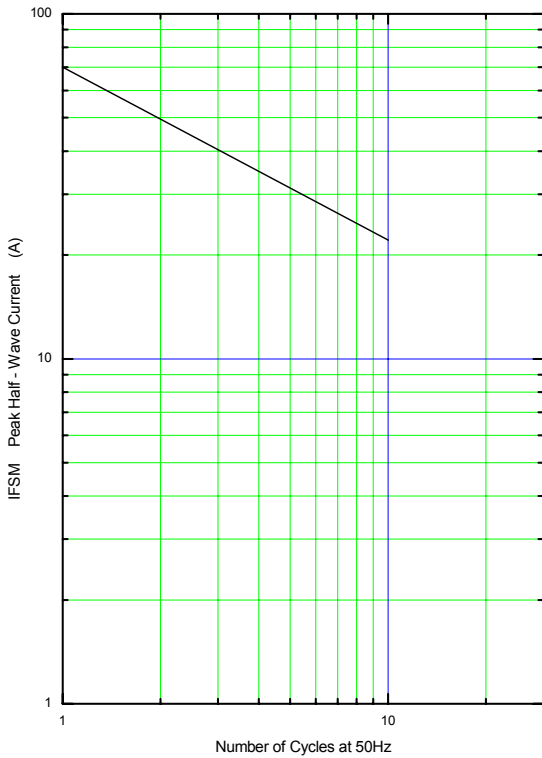
Current Derating (IF(AV)-TI) (max.)



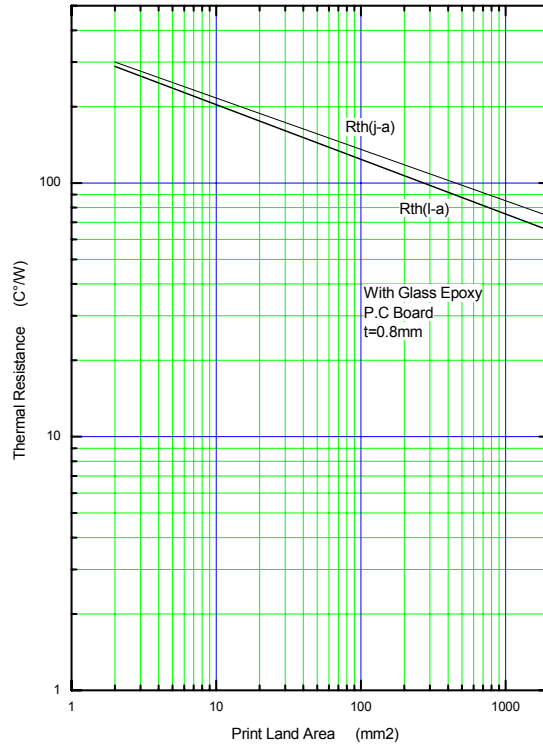
Junction Capacitance Characteristic (typ.)

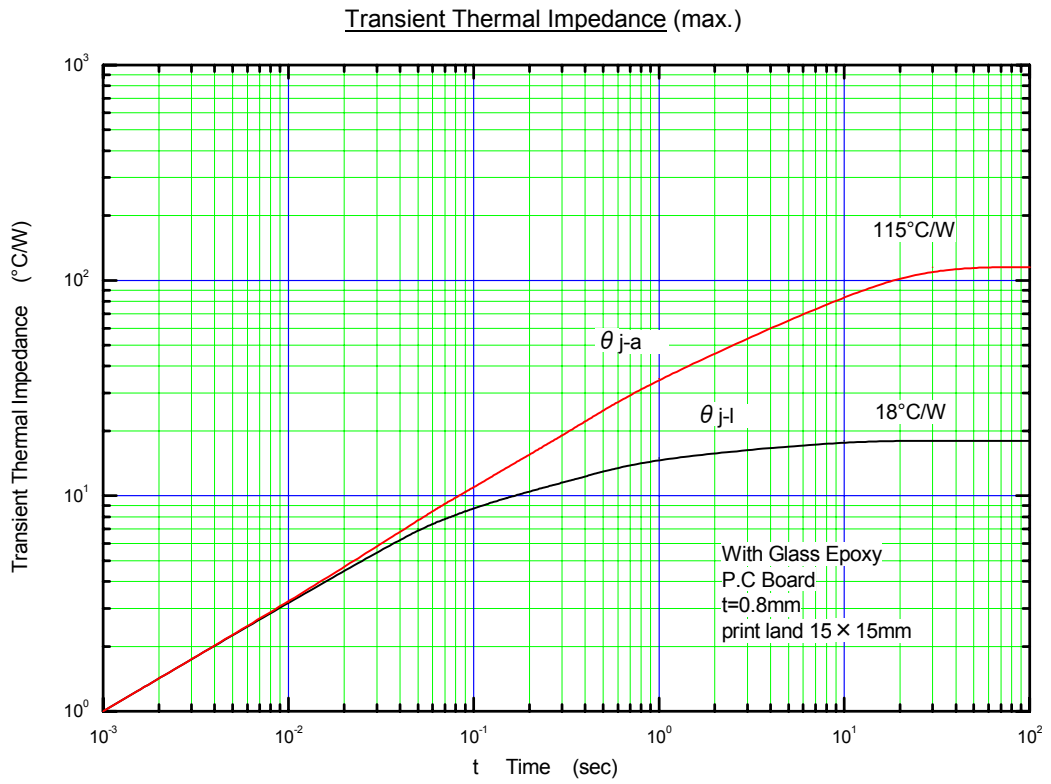


Surge Capability (max.)



Thermal Resistance Print Land (max.)





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