

## Schottky Barrier Diode

**VOLTAGE**
**40Volt**
**71 FF9BH**
**500mA**

## FEATURES

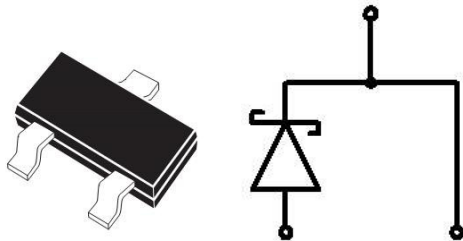
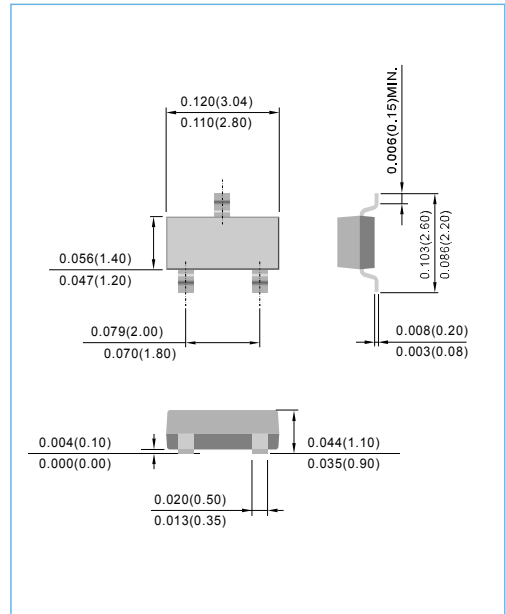
- High Reliability
- Low Reverse Current
- Ultra High-speed Switching
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. .  
(Halogen Free)

## MECHANICAL DATA

- Case : SOT-23, Plastic
- Terminals : Solder plated,solderable per MIL-STD-750,  
Method2026
- Approx. Weight : 0.0003 ounces, 0.0084 grams
- Marking : 11D

### SOT-23

Unit : inch(mm)



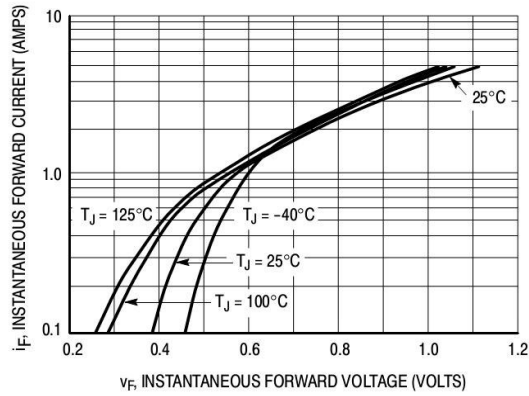
## ABSOLUTE RATINGS (T<sub>A</sub>=25°C)

Parameter	Symbol	Value	Units
Reverse Voltage	V <sub>RM</sub>	40	V
Average Rectified Forward Current	I <sub>O</sub>	500	mA
Forward Current Surge Peak (t=8.3ms)	I <sub>FSM</sub>	3	A
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-40 to +125	°C

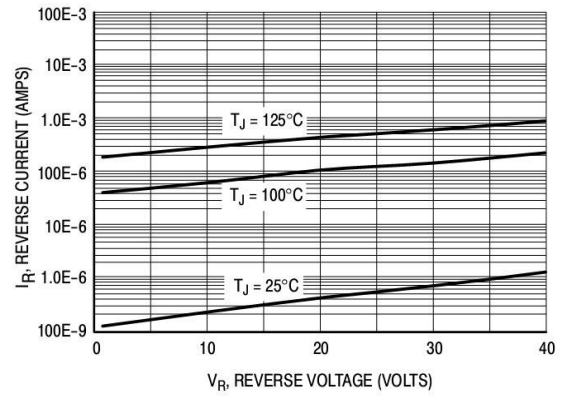
## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Forward Voltage	V <sub>F</sub>	-	-	0.5	V	I <sub>F</sub> = 500mA
		-	-	0.3	V	I <sub>F</sub> = 10mA
Reverse Current	I <sub>R</sub>	-	-	30	uA	V <sub>R</sub> = 10V
Junction Capacitance	C <sub>J</sub>	-	16	-	pF	V <sub>R</sub> = 10V, f=1MHz

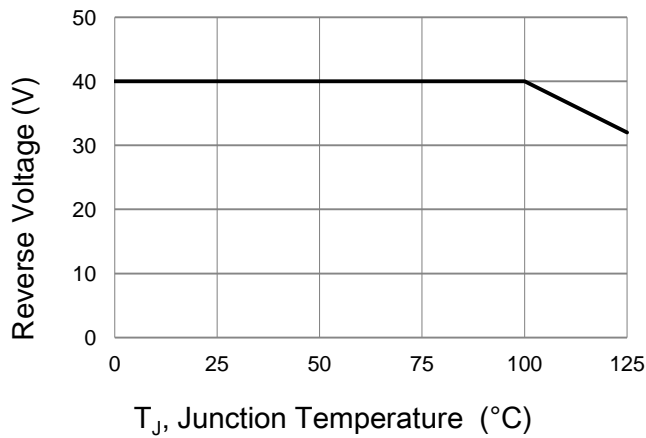
## ELECTRICAL CHARACTERISTICS CURVE



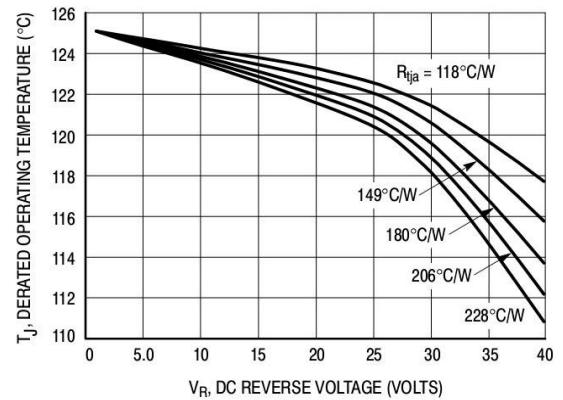
**Fig. 1. Typical Forward Voltage**



**Fig. 2. Typical Reverse Current**

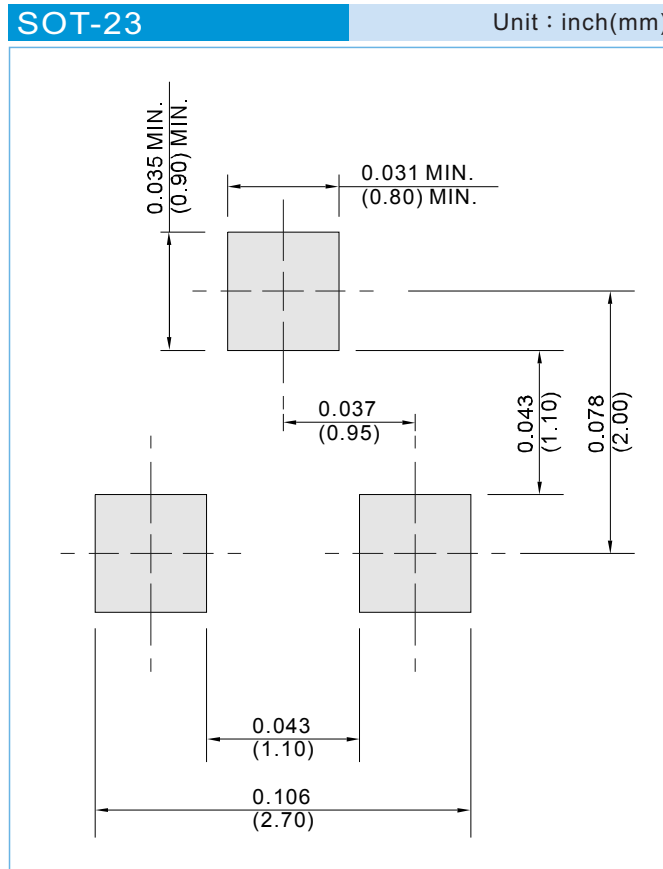


**Fig.4 Operating Temperature Derating Curve**



**Fig. 3. Typical Operating Temperature Derating**

## MOUNTING PAD LAYOUT



## RB411D

### Part No\_packing code\_Version

RB411D\_R1\_00001

RB411D\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



## RB411D

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