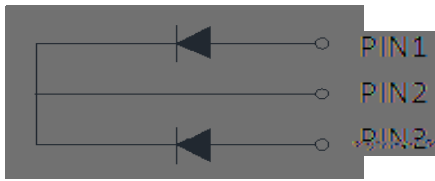
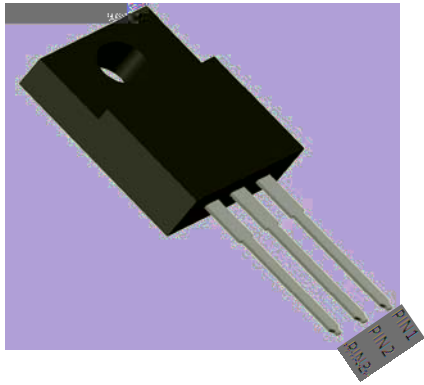


## Schottky Diodes



### Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

### Mechanical Data

**Package:** ITO-220AB

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Polarity:** As marked

### Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR1045FCTS
Device marking code			MBR1045FCTS
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T <sub>c</sub> =100	I <sub>o</sub>	A	10
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T <sub>a</sub> =25	I <sub>FSM</sub>	A	100
Current Squared Time @1ms t 8.3ms T <sub>j</sub> =25	I <sup>2</sup> t	A <sup>2</sup> s	41
Storage Temperature	T <sub>stg</sub>		-55 ~ +150
Junction Temperature	T <sub>j</sub>		-55 ~ +125

### Electrical Characteristics T<sub>a</sub>=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR1045FCTS
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Maximum instantB R<sub>MS</sub>=100e test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



## Thermal Characteristics $T_a$



## Outline Dimensions

ITO-220AB		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75 B 2.2 Å

### Disclaimer

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