

## Schottky Diodes



### Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced rugged

**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	MBR2045CTS
Device marking code			MBR2045CTS
Repetitive Peak Reverse Voltage	VRRM	V @60Hz half sine-wave, 1 cycle, T <sub>a</sub> =25	IFSM A
Current Squared Time @1ms t<8.3ms T <sub>j</sub> =25	I <sup>2</sup> t	A <sup>2</sup> s	70
Storage Temperature	T <sub>stg</sub>		-55 ~ +150
Junction Temperature	T <sub>j</sub>		-55 ~ +150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR2045CTS
Maximum instantaneous forward voltage drop per diode	V <sub>FM</sub>	V	I <sub>FM</sub> =10.0A	0.7
Reverse current	I <sub>RM</sub>	mA	V <sub>RM</sub> =VRRM T <sub>a</sub> =125	100

**Molding compound meets UL - 4 V-0 flammability**

**RoHS-compliant**

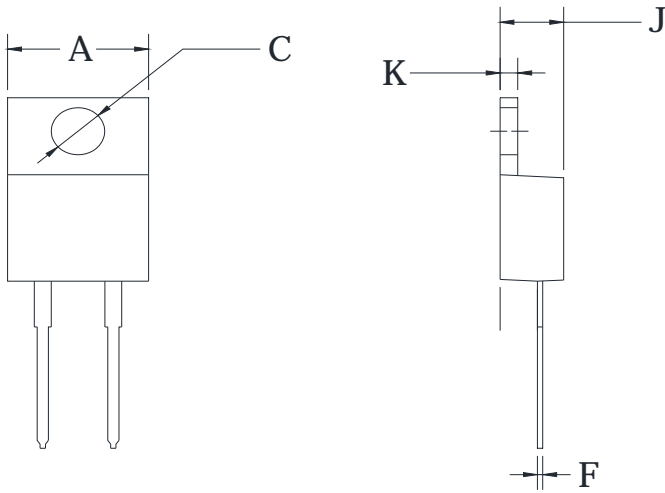
Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

**MBR2045CTS**



Outline Dimensions





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