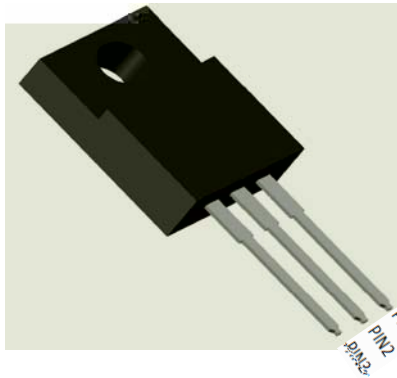


Schottky Diodes



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_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBR1045FCTS
Device marking code			MBR1045FCTS
Repetitive Peak Reverse Voltage	V _{RRM}	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T _c =100	I _O	A	10
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25	I _{FSM}	A	100
Current Squared Time @1ms≤t≤8.3ms T _j =25	I ² t	A ² s	41
Storage Temperature	T _{stg}		-55 ~ +150
Junction Temperature	T _j		-55 ~ +125

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR1045FCTS
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Maximum instantB R_{RM}=100V, t_p=300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



U MBR1045FCTS /

■Thermal Characteristics $T_a \neq$



■Outline Dimensions

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

Disclaimer

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