



Schottky Diodes

Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260

Typical Applications

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

Mechanical Data

- **Package:** TO-263
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	MBRB2045CTS
Device marking code			MBRB2045CTS
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, $T_c=124$	IO	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, $T_a=25$	IFSM	A	130
Current Squared Time @1ms≤t≤8.3ms $T_j=25$	I ² t	A ² s	70
Storage Temperature	Tstg		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL
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MBRB2045CTS



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