



MBR3045CT

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
- 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	MBR3045CT
Device marking code			MBR3045CT
Repetitive Peak Reverse Voltage	V _{RRM}	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T _a =25	I _O	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25	I _{FSM}	A	250
Current Squared Time @1ms≤t≤8.3ms T _j =25	I ² t	A ² s	260
Storage Temperature	T _{stg}		-55 ~ +150
Junction Temperature	T _j		-55 ~ +150

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR3045CT
Maximum instantaneous forward	η		RRM2VRM125160:300uS pulse width,1% duty cycle	



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■Thermal Characteristics $T_a=25$ Unless otherwise specified

			UNIT	
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	2.0



■Outline Dimensions

