

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
- 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: TO-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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR3045CTS	
Device marking code			MBR3045CTS	
Repetitive Peak Reverse Voltage	VRRM	V	45	
Average Rectified Output Current @60Hz sine wave, R-load, Tc=111°C	IO	А	30	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, Ta=25°C	IFSM	А	200	
Current Squared Time @1ms≤t≤8.3ms Tj=25℃,	l ² t	A ² s	166	
Storage Temperature	Tstg	°C	-55 ~ +150	
Junction Temperature	Tj	°C	-55 ~ +150	

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR3045CTS
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15.0A	0.65
Maximum DC reverse current at	IRRM1	mA	VRM=VRRM T _a =25°C	0.2
rated DC blocking voltage per diode	IRRM2		VRM=VRRM T _a =100°C	20

$\blacksquare Thermal \ Characteristics \ (T_a = 25 \ C \ Unless \ otherwise \ specified)$

PARAMETER		SYMBOL	UNIT	MBR3045CTS
Thermal Resistance Between junction and case		RθJ-C	°CW	2.0

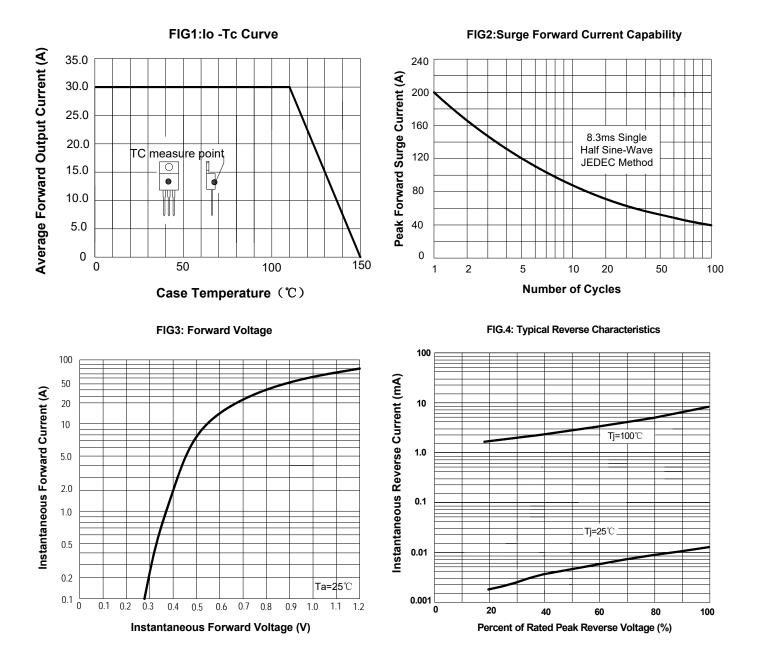


MBR3045CTS

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR3045CTS	Approximate 1.9	50	1000	5000	Tube

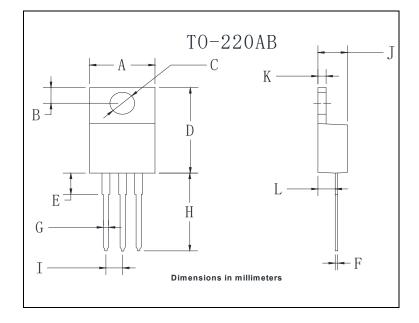
Characteristics (Typical)



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Outline Dimensions



TO-220AB				
Dim	Min	Max		
Α	9.5	10.9		
В	2.22	3.27		
С	3.34	4.31		
D	14.5	15.5		
E	3.16	4.46		
F	0.28	0.64		
G	0.68	0.94		
Н	13.06	14.62		
I	2.01	3.07		
J	4.04	5.1		
K	1.14	1.4		
L	2.14	3.19		

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MBR3045CTS

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