MBR2035CT THRU MBR2060CT

Schottky Diodes

Features

• High efficiency operation

RLILÆN

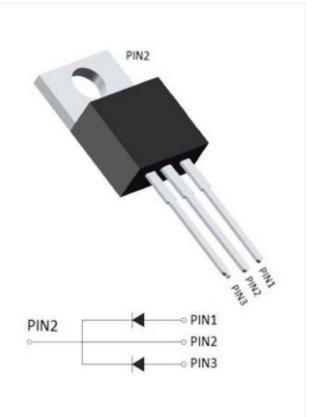
- Guard ring for enhanced ruggedness and long term reliablity
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

Typical Application

For use 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: Color Band denotes cathode end



Maximum Ratings (Ta=25°C Unless otherwise specified)

DADAMETED	Cumph of	11	Conditions	MBR			
PARAMETER	METER Symbol Unit Conditions		Conditions	2035CT	2040CT	2050CT	2060CT
Repetitive Peak Reverse Voltage	V _{RRM}	V		35	40	50	60
Average Rectified Output Current	lo	А	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	20			
Surge(Nonrepetitive)Forward Current	I _{FSM}	А	60HZ sine wave, 1 cycle, Ta=25℃	150			
Current Squared Time	I ² T	A ² S	1ms≤t < 8.3ms Tj =25℃,Rating of per diode	94			
Storage Temperature	T _{stg}	°C		-55 ~ +150			
Junction Temperature	Tj	°C	IN DC Forward Mode-Forward Operations, without reverse bias, t ≤1 h (Fig. 1)①	-55 ~ +150			

Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions		MBR			
	e y				2035CT	2040CT	2050CT	2060CT
Peak Forward Voltage	V _{FM}	V	I _{FM} =10A		0.55		0.70	
Peak Reverse Current	I _{RRM1}	- mA	nA V _{RM} =V _{RRM}	Ta=25 ℃	0.05			
	I _{RRM2}			Ta=100 ℃	1			
Thermal Resistance	R _{0J-C}	°C/W	Between junction and case 2.0		0			

NOTES:

Meets the requirement of IEC 61215 Ed.2 bypass diode thermal test

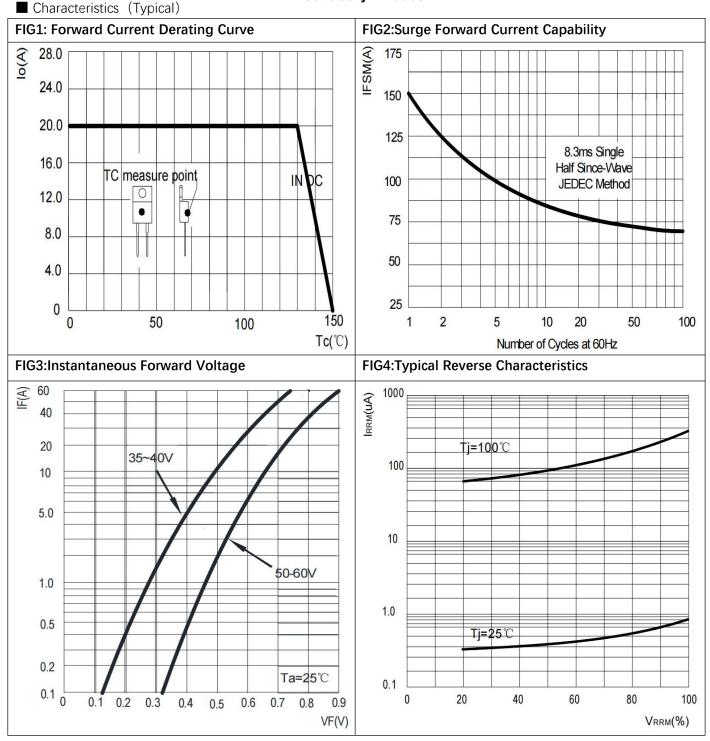






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Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBR2035CT ~ MBR2060CT	TO-220AB	50	1000	5000	Tube	

Outline Dimensions

