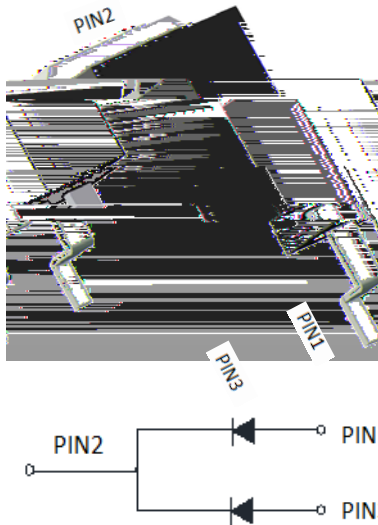


Schottky Diodes



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-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	MBRB30100CT	MBRB30150CT	MBRB30200CT
Device marking code			MBRB30100CT	MBRB30150CT	MBRB30200CT
Repetitive Peak Reverse Voltage	V _{RRM}	V	100	150	200
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	262		
Storage Temperature	T _{stg}		-55 ~ +175		
Junction Temperature	T _j		-55 ~ +175		

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRB30100CT	MBRB30150CT	MBRB30200CT
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =15.0A	0.8	0.85	0.9
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} T _a =25	0.1		
	I _{RRM2}		V _{RM} =V _{RRM} T _a =125	20		



MBRB30100CT THRU MBRB30200CT

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

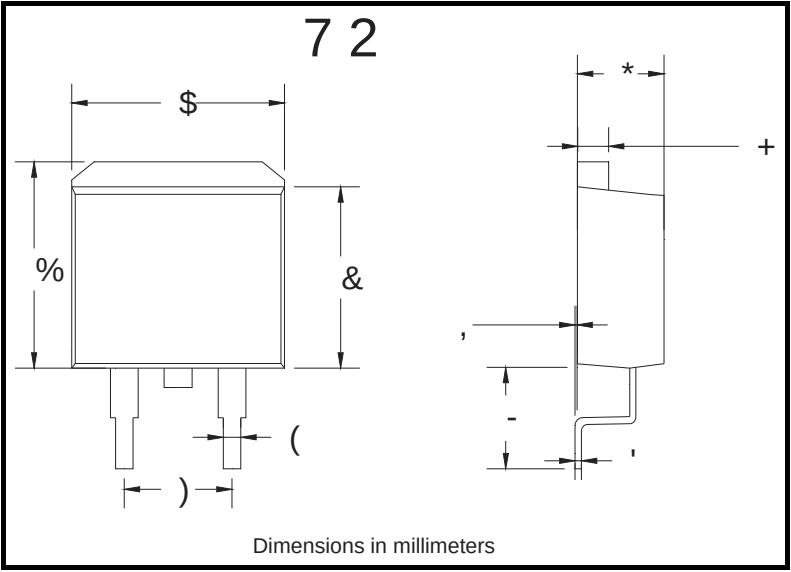
PARAMETER		SYMBOL	UNIT	MBRB30100CT	MBRB30150CT	MBRB30200CT
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	$^{\circ}W$	2.0		

■ Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRB30100CT THRU MBRB30200CT	Approximate 1.43	50	2000	8000	Tube
MBRB30100CT THRU MBRB30200CT	Approximate 1.43	1000	2000	10000	Reel

MBRB30100CT THRU MBRB30200CT

Outline Dimensions



TO-263		
Dim	Min	Max
A	9.5	11.5
B	9.7	10.5
C	8.4	9.0
D	0.28	0.64
E	0.68	0.94
F	4.55	5.6
G	4.04	5.10
H	1.14	1.4
I	0	0.2
J	4.9	6.05



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