

MBRB2060CTS

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.

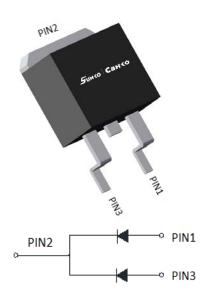
Mechanical Data

• Package: TO-263

Molding compound meets UL 94 V-0 flammability

 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	MBRB2060CTS
Device marking code			MBRB2060CTS
Repetitive Peak Reverse Voltage	VRRM	٧	60
Average Rectified Output Current @60Hz sine wave, R-load, T _C =120°C	Ю	Α	20
Surge(Non-repetitive)Forward Current @60H _Z half sine-wave,1 cycle, T _a =25°C	IFSM	А	130
Current Squared Time @1ms≤t≤8.3ms Tj=25°C,	l²t	A ² s	70
Storage Temperature	Tstg	°C	-55 ~ + 150
Junction Temperature	Tj	°C	-55 ~ + 150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRB2060CTS
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=10.0A	0.75
Maximum DC reverse current	10011 1: 11		VRM=VRRM T _a =25°C	0.2
at rated DC blocking voltage per diode IRRM2	IRRM2	mA	VRM=VRRM T _a =100°C	20

Note1:Pulse test:300uS pulse widh,1% duty cycle

Note2:Pulse test:pulse widh 40mS



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

PA	SYMBOL	UNIT	MBRB2060CTS	
Thermal Resistance	Between junction and case	R ₀ J-C	°CW	2.0

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRB2060CTS	Approximate 1.43	50	2000	8000	Tube
	Approximate 1.43	1000	2000	10000	Reel

■Characteristics (Typical)

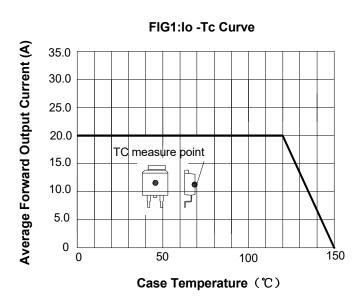


FIG2:Surge Forward Current Capability

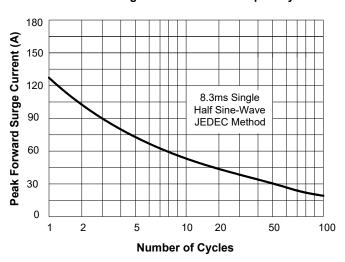


FIG3: Forward Voltage

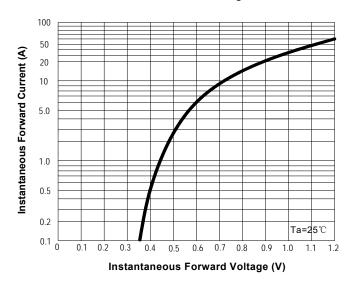
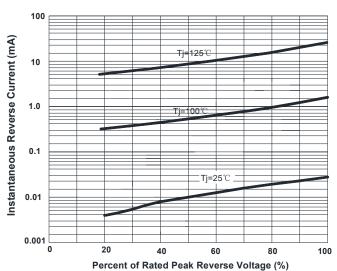


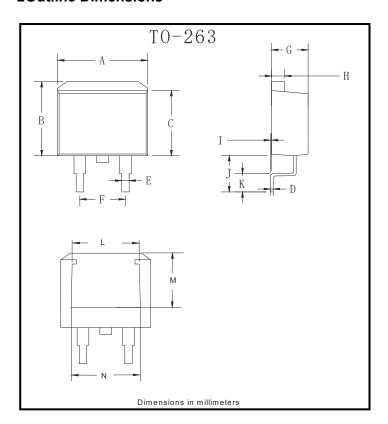
FIG.4: Typical Reverse Characteristics





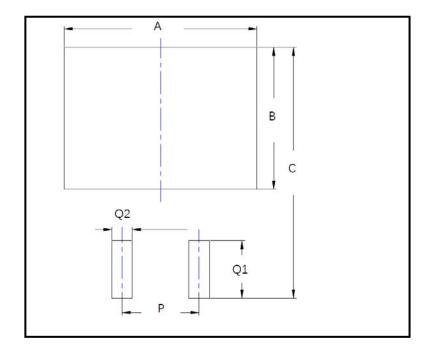
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■Outline Dimensions



TO-263			
Dim	Min	Max	
Α	9.5	11.5	
В	9.7	10.5	
С	8.4	9.0	
D	0.28	0.64	
Е	0.68	0.94	
F	4.55	5.6	
G	4.04	5.10	
Н	1.14	1.4	
I	0	0.2	
J	4.9	6.05	
K	1.79	2.79	
L	7.3	7.9	
М	6.2	6.8	
N	7.6	8.2	

■Suggested Pad Layout



Dim	Millimeters	
Α	12.7	
В	9.4	
С	16.6	
Р	5.08	
Q1	3.8	
Q2	1.35	



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