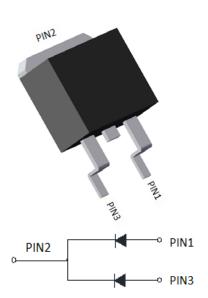




Schottky Diodes



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 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		MBRBL30150CT
Device marking code			MBRBL30150CT
Repetitive Peak Reverse Voltage	VRRM	V	150
Average Rectified Output Current @60Hz sine wave, R-load, Ta (FIG 1)	Ю	Α	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	IFSM	Α	220
Current Squared Time @1ms≤t≤8.3ms Tj=25°C,rating of per diode	I2t	A2s	200
Storage Temperature	Tstg	°	-55 ~ + 150
Junction Temperature	Tj	°C	-55 ~ + 150

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

24244555			TEST	MDDDI 20450CT
PARAMETER	SYMBOL	UNIT	CONDITIONS	MBRBL30150CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=10.0A	0.84
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM Ta=25°C	0.1
	IRRM2		VRM=VRRM Ta=100°C	20

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PAR	AMETER	SYMBOL	UNIT	MBRBL30150CT
Thermal Resistance	Between junction and case	R ₀ J-C	°CW	2.0

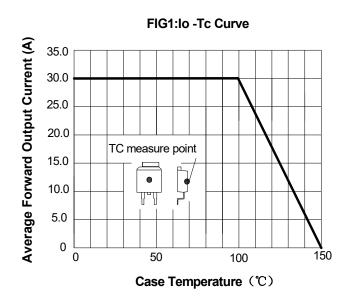


MBRBL30150CT

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRBL30150CT	Approximate 1.43	50	2000	8000	Tube
MBRBL30150CT	Approximate 1.43	1000	2000	10000	Reel

■Characteristics (Typical)



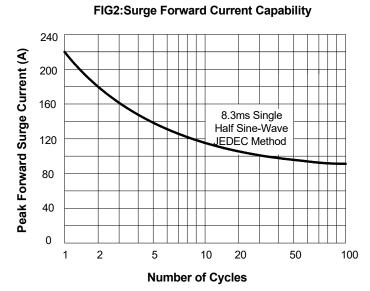


FIG3: Forward Voltage

50

20

10

5.0

5.0

1.0

0.5

0.1

0.1

0.2

0.1

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

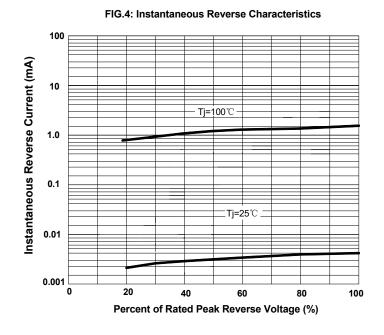
0.9

1.0

1.1

1.2

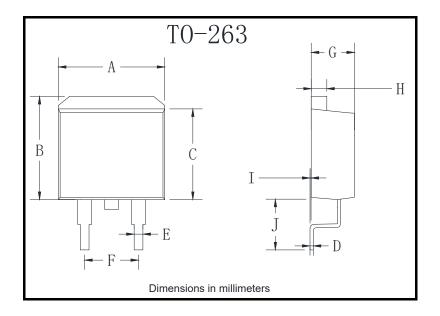
Instantaneous Forward Voltage (V)







■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		



MBRBL30150CT

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