



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 (T_a=25 Unless otherwise specified Å

PARAMETER	SYMBOL	UNIT	MBRBL20150CT
Device marking code			MBRBL20150CT
Repetitive Peak Reverse Voltage	V _{RRM}	V	150
Average Rectified Output Current @60Hz sine wave, R-load, T _a Å FIG 1 Å	I _o	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25	I _{FSM}	A	160
Current Squared Time @1ms t 8.3ms T _j =25 Å rating of per diode	I ² t	A ² s	106
Storage Temperature	T _{stg}		-55 ~ +150
Junction Temperature	T _j		-55 ~ +150

Electrical Characteristics Å T_a=25 Unless otherwise specified Å

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRBL20150CT
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =10.0A	0.84
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1} I _{RRM2}	mA	V _{RM} =V _{RRM} T _a =25 V _{RM} =V _{RRM}	0.1



MBRBL20150CT

Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRBL20150CT	Approximate 1.43	50	2000	8000	Tube
MBRBL20150CT	Approximate 1.43	1000	2000	10000	Reel

Characteristics (Typical)

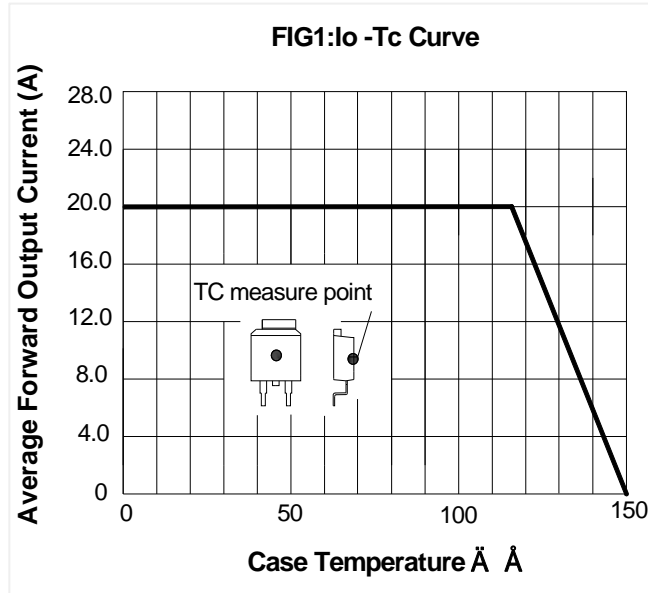
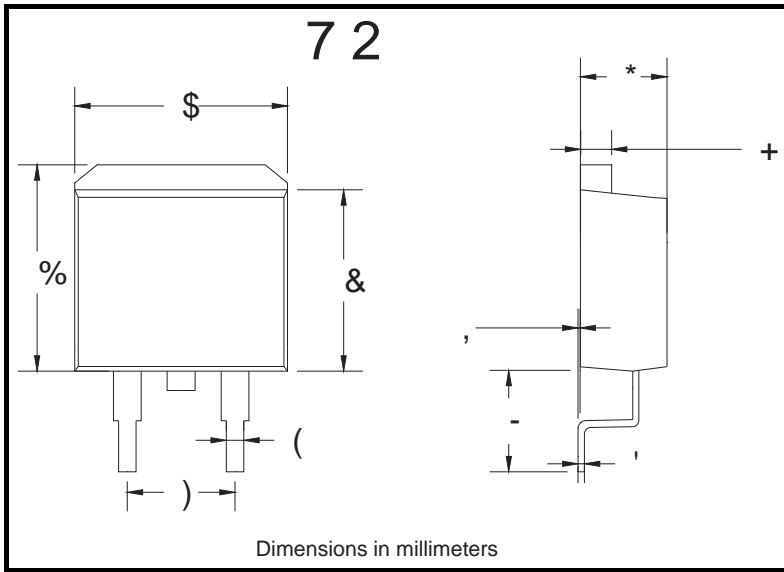


FIG2: Surge Forward Current Capability

vOutline 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



Disclaimer

The information presented in this document is for reference only.