



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 °C Unless otherwise specified)

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 = 25 °C	I _O	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25 °C	I _{FSM}	A	160
Current Squared Time @1ms ≤ t ≤ 8.3ms T _j =25 °C 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 (T_a=25 °C Unless otherwise specified)

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 °C V _{RM} =V _{RRM}	0.1



MBRBL20150CT

Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIIMUM 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)

FIG1:Io -Tc Curve

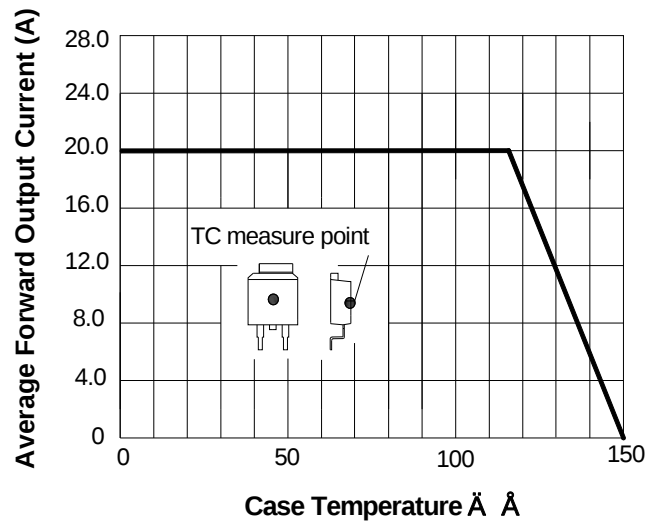
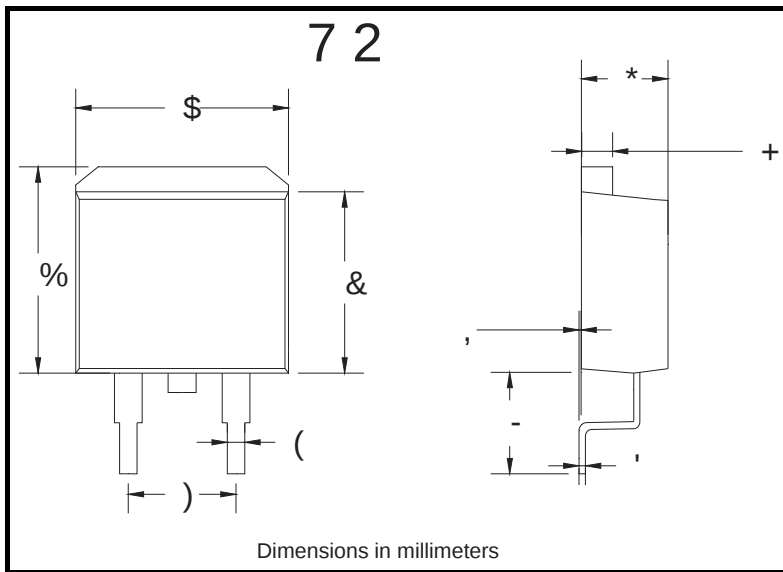


FIG2:Surge Forward Current Capability

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



Disclaimer

The information presented in this document is for reference only.