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 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, Ta ÄFIG 1 Å	I_O	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	I_{FSM}	A	160
Current Squared Time @1ms t 8.3ms Tj=25 È rating of per diode	I^2t	A^2s	106
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

Electrical Characteristics ÄTa=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}	mA	$V_{RM}=V_{RRM}$ Ta=25	0.1
	I_{RRM2}		$V_{RM}=V_{RRM}$	

Ordering Information (Example)

PREFERED 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

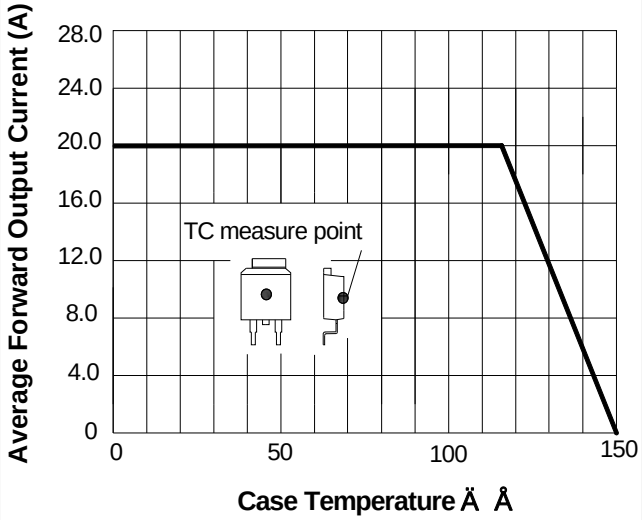
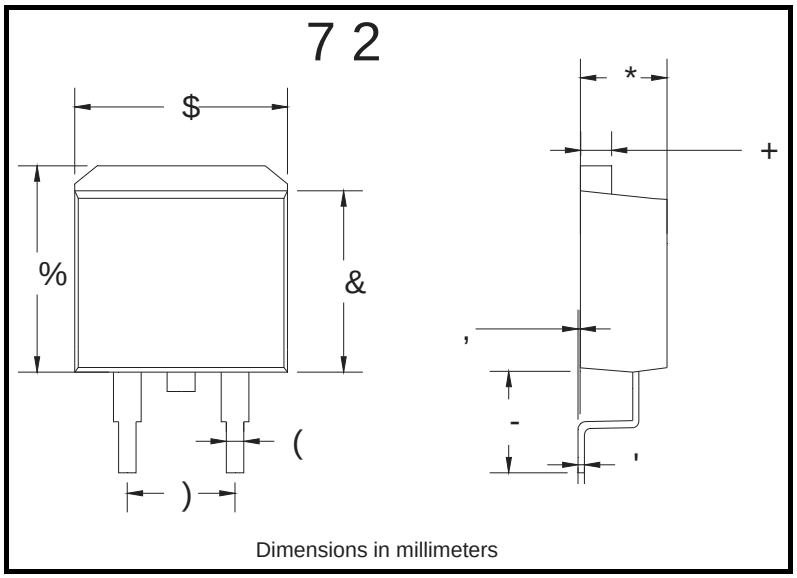


FIG2:Surge Forward Current Capability

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.