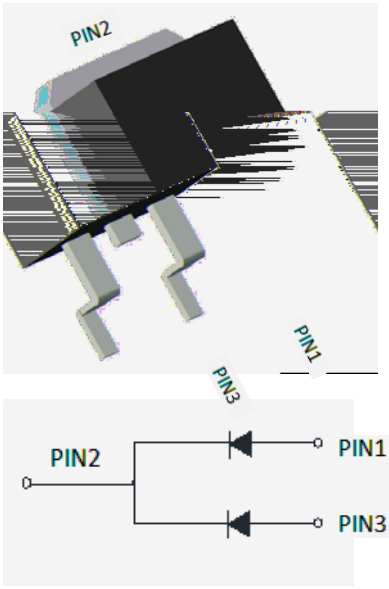
Schottky Diodes



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 ¯

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 ˜ FIG 1 ¯	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 ¨ rating of per diode	I^2t	A^2s	106
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

Electrical Characteristics ˜ Ta=25 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}	mA	$V_{RM}=V_{RRM}$ Ta=25	0.1
	I_{RRM2}		$V_{RM}=V_{RRM}$ Ta=100	20

Thermal Characteristics ˜ Ta=25 Unless otherwise specified ¯

PARAMETER		SYMBOL	UNIT	MBRBL20150CT
Thermal Resistance	Between junction and case	R_{J-C}	/W	2.0

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

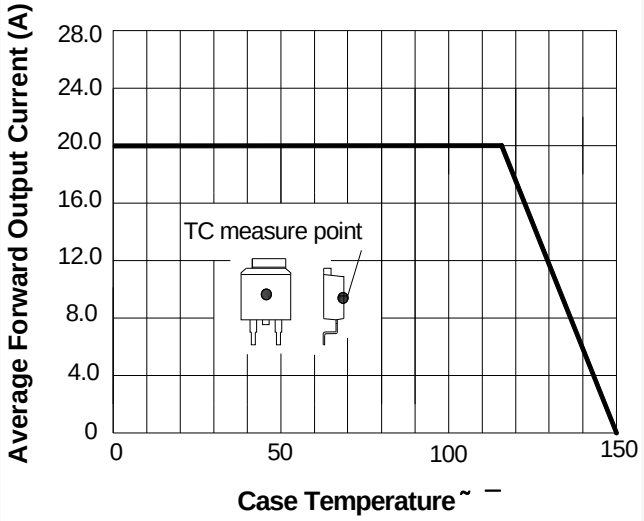
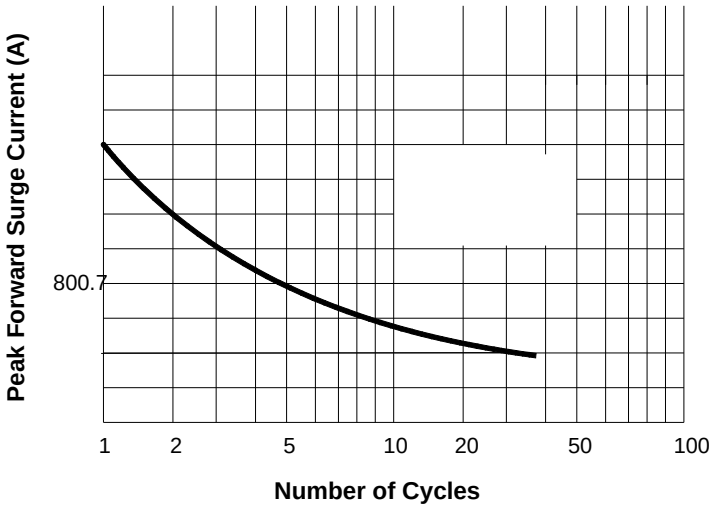
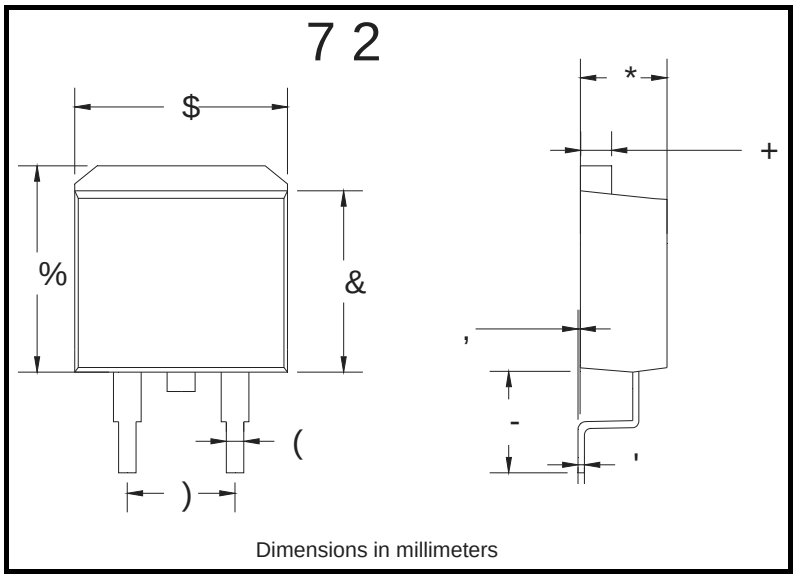


FIG2:Surge Forward Current Capability



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. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.