TO0585

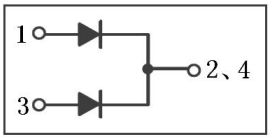
Schottky Diode in a TO-252 Plastic Package.

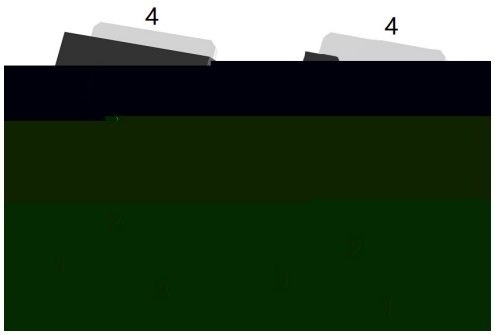
H

Low power loss, high efficiency, HF Product.

H

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.





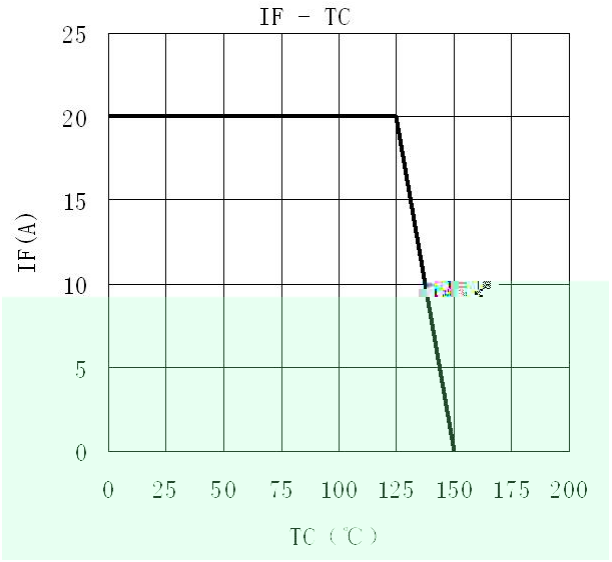
PIN1 Anode PIN 2,4 Cathode PIN 3 Anode

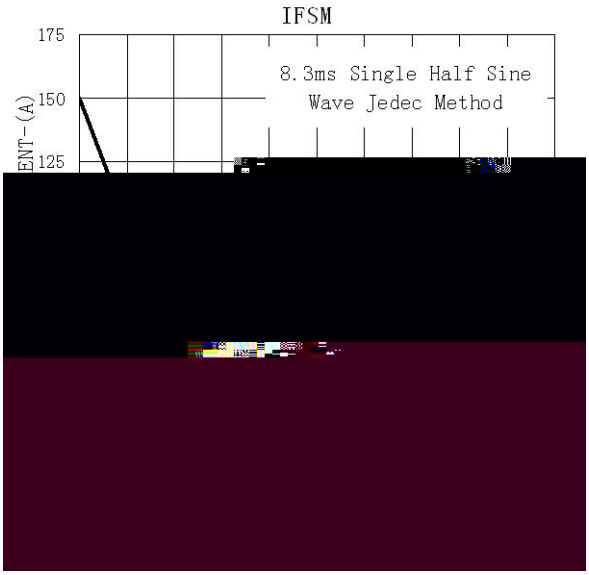
See Marking Instructions.

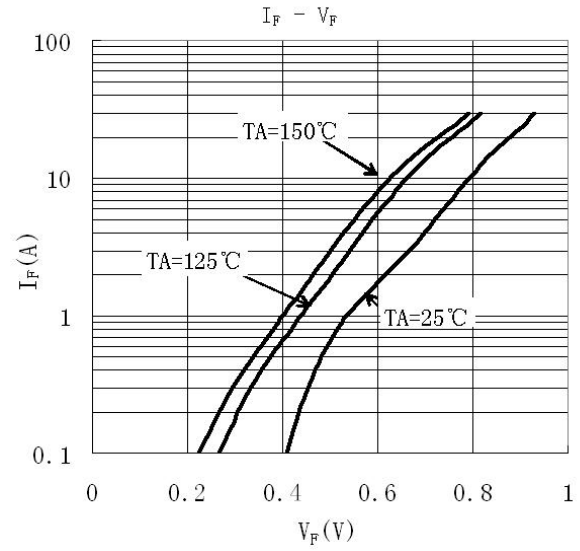
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{RM}	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	V
Average Rectified Forward Current	$I_{F(AV)\ (per\ leg)}$	10	A
	$I_{F(AV)\ \ total}$	20	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Thermal resistance, junction to case	$R_{\theta Jc}$	6	℃/W
Junction Temperature Range	$T_{j\ MAX}$	175	℃
Storage Temperature Range	T_{stg}	-55 175	℃

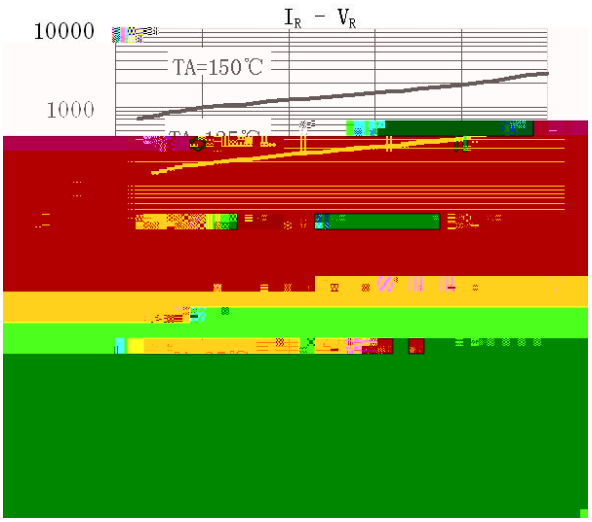
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	I_R=0.3mA	100			V
Forward Voltage	V_F	I_F=10A T_J=25			0.85	V
		I_F=10A T_J=125			0.7	V
		I_F=20A T_J=25			0.95	V
		I_F=20A T_J=125			0.85	V
Instantaneous Reverse Current	I_R Note 1	V_R=100V T_J=25			0.15	mA
		V_R=70V T_J=125			1.0	mA

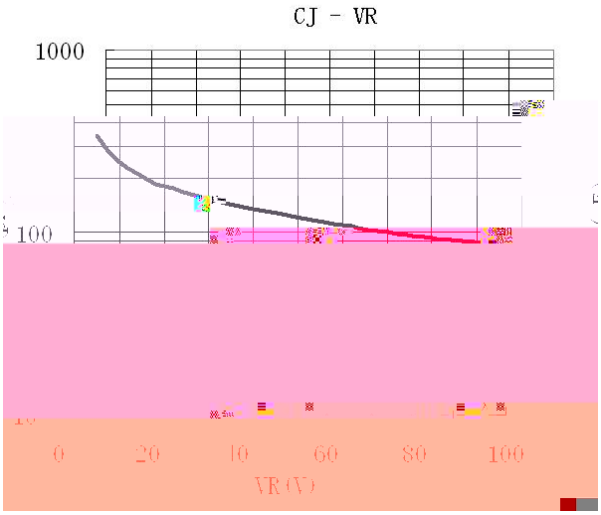
V

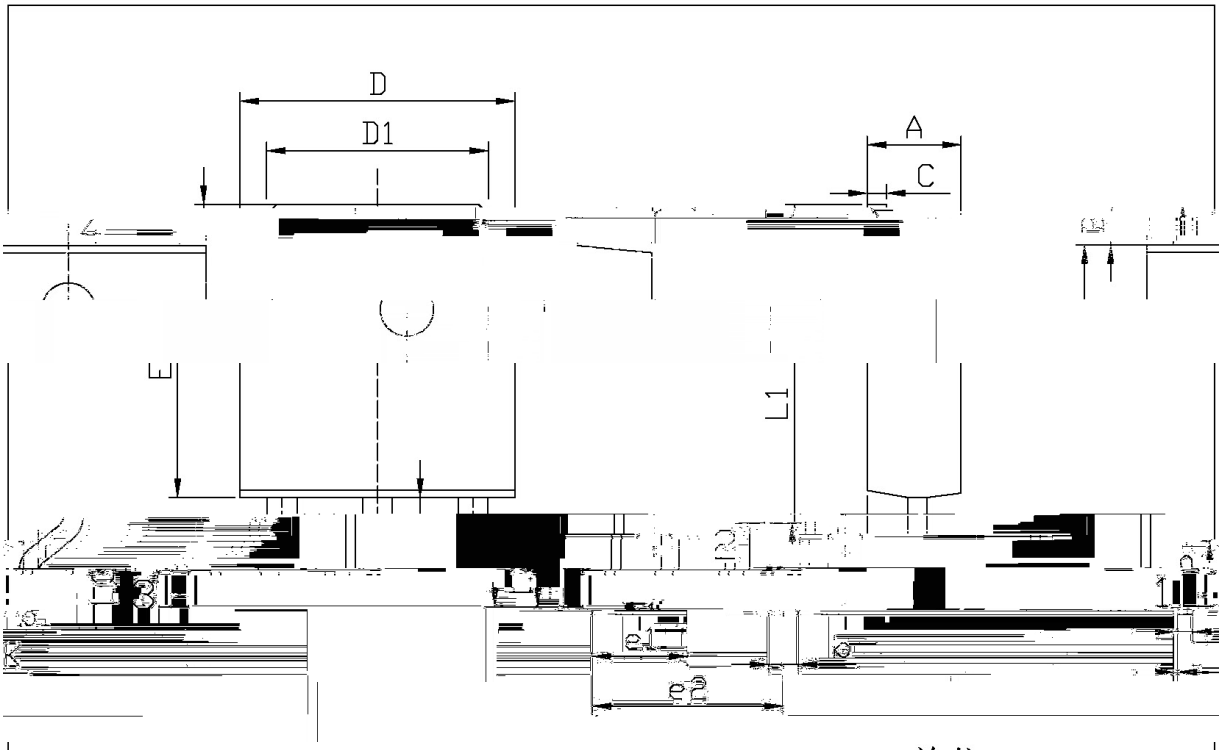

IF - TC
25
20
15
10
5
0
IF(A)
0 25 50 75 100 125 150 175 200
TC (℃)


IFSM
175
150
125
ENT-(A)
8.3ms Single Half Sine
Wave Jedec Method


IF - VF
100
10
1
0.1
IF(A)
TA=150℃
TA=125℃
TA=25℃
0 0.2 0.4 0.6 0.8 1
VF(V)


IR - VR
10000
1000
TA=150℃

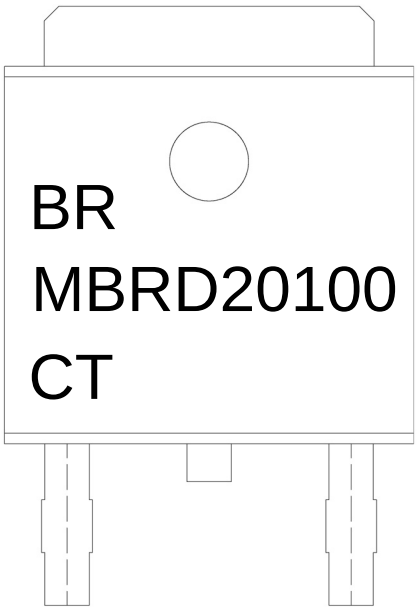

CJ - VR
1000
100
0 20 40 60 80 100
VR(V)



单位：mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	2.20	2.40	E	5.95	6.25
B	0.95	1.25	e1	2.24	2.34
b	0.50	0.90	e2	4.43	4.73
b1	0.45	0.55	L1	9.45	9.95
C	0.45	0.55	L2	1.25	1.75
D	6.45	6.75	L3	0.60	0.90
D1	5.10	5.50	K	0.00	0.10

TO-252



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MERG53433 N

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Note:

BR:	Company Code
MBRD20100	Product Type Code
CT:	Internal Structure Code
****:	Lot No. Code, code change with Lot No.

蓝箭电子
BLUE ROCKET ELECTRONICS

Time:60~90sec.

Duration:5±0.5sec.

/sec.

me:10±1 sec

包装尺寸 (unit：mm³)	
盒	箱

27013 0 TD(96 Tc2

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