

/ Descriptions

TO0585

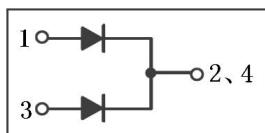
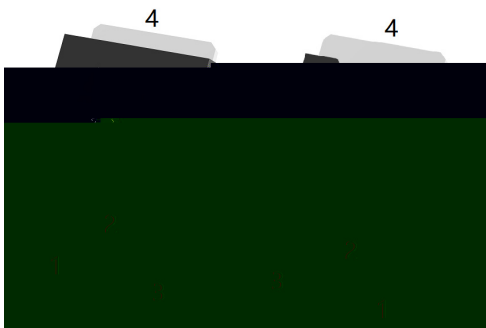
Schottky Diode in a TO-252 Plastic Package.

/ Features

Low power loss, high efficiency, HF Product.

/ Applications

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

/ Equivalent Circuit**/ Pinning**

PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

/ Marking

See Marking Instructions.

MBRD20100CT

Rev.D May.-2026

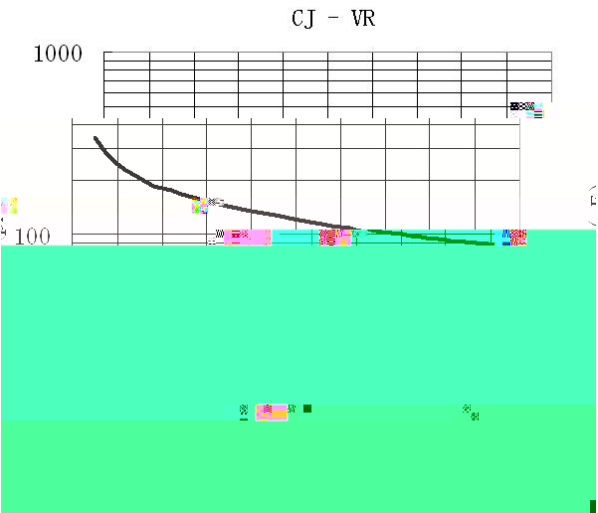
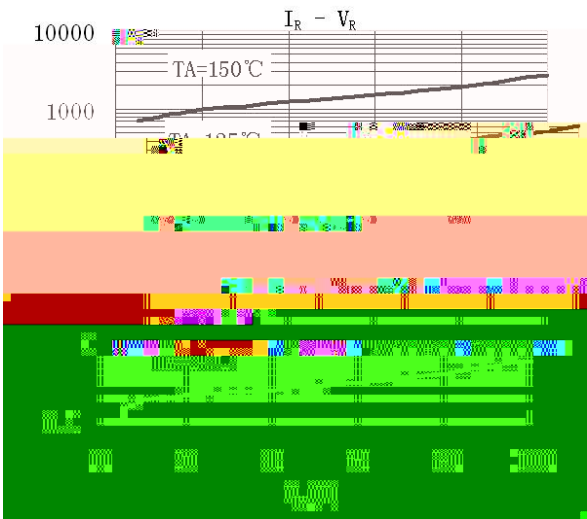
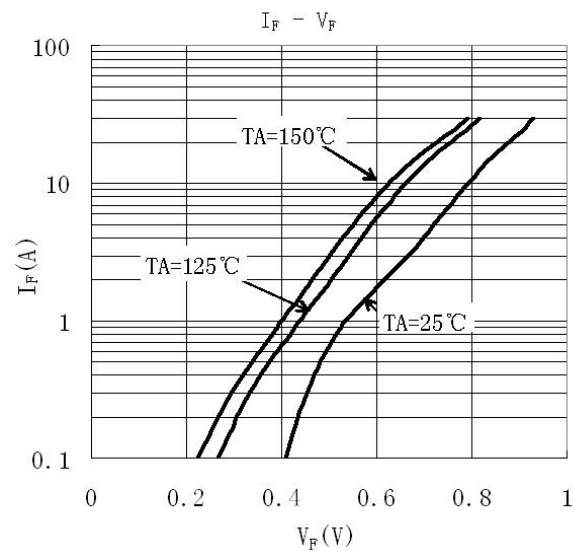
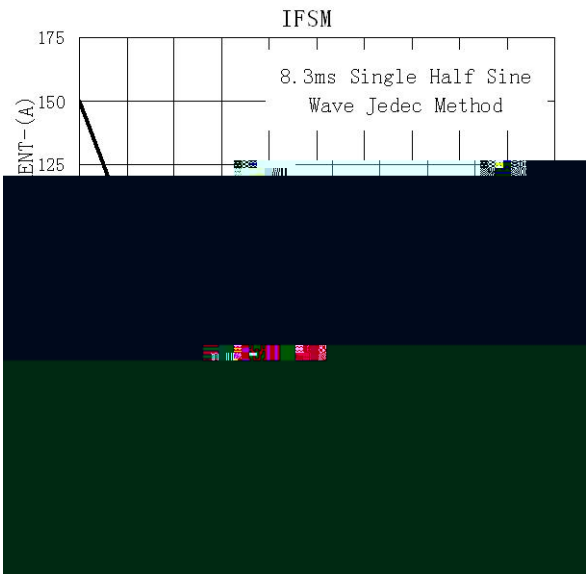
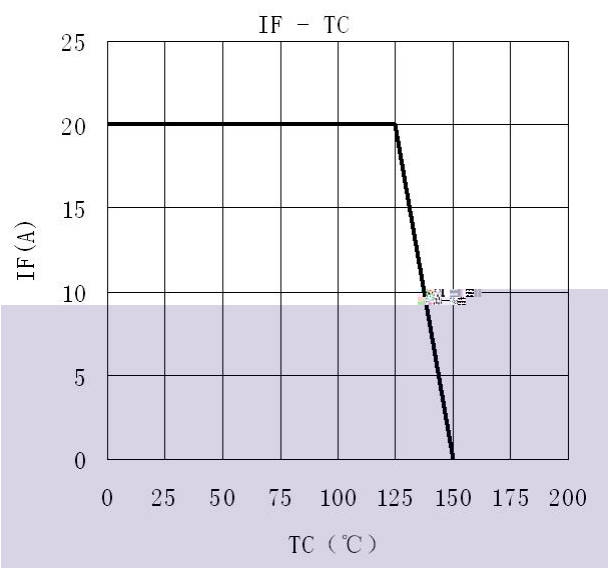
DATA SHEET

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	°C/W
Junction Temperature Range	$T_{j\ MAX}$	175	°C
Storage Temperature Range	T_{stg}	-55 175	°C

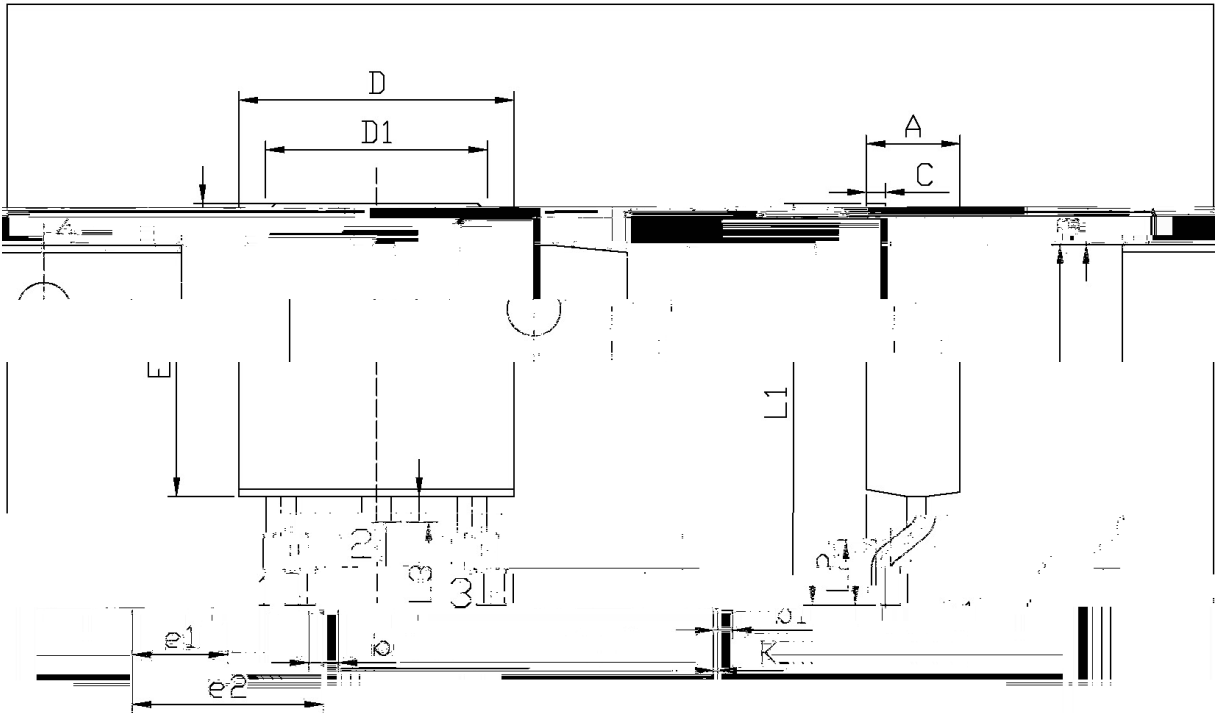
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=0.3mA$	100			V
Forward Voltage	V_F	$I_F=10A$ $T_J=25$			0.85	V
		$I_F=10A$ $T_J=125$			0.7	V
		$I_F=20A$ $T_J=25$			0.95	V
		$I_F=20A$ $T_J=125$			0.85	V
Instantaneous Reverse Current	I_R Note 1	$V_R=100V$ $T_J=25$			0.15	mA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

V

/ Electrical Characteristic Curve



/ Package Dimensions



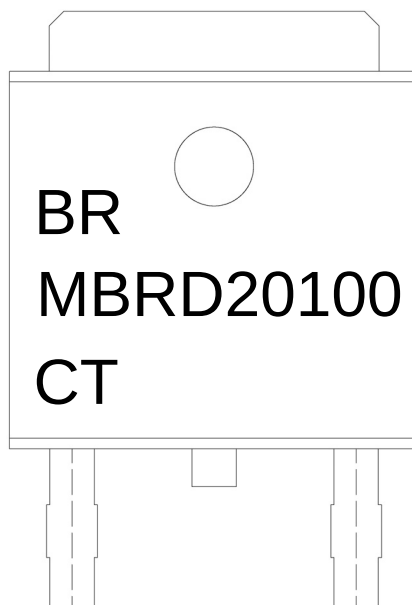
单位: mm

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



/ Marking Instructions



ER

MERG53433

FT:-

Note:

BR:

Company Code

MBRD20100

Product Type Code

CT:

Internal Structure Code

****:

Lot No. Code, code change with Lot No.

() /

Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5℃ Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)	
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱	- 盒	箱