



A	2022-6-17		MBR20200CT TO-252		

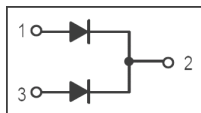


TO-252

Schottky Barrier Diode in a TO-252 Plastic Package.

Low power loss, high efficiency, HF Product.

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



PIN1: Anode

PIN 2,4: Cathode

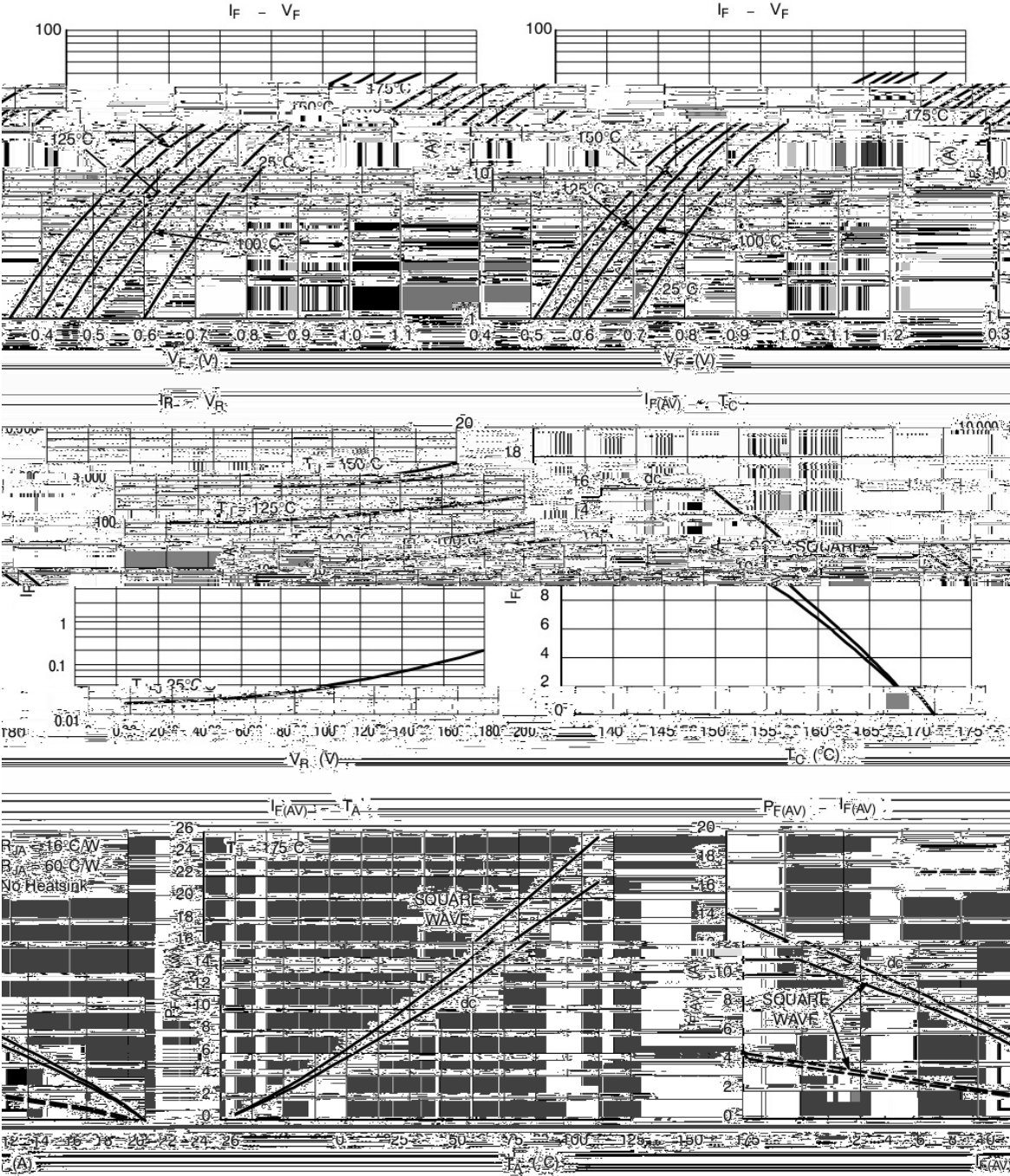
PIN 3: Anode

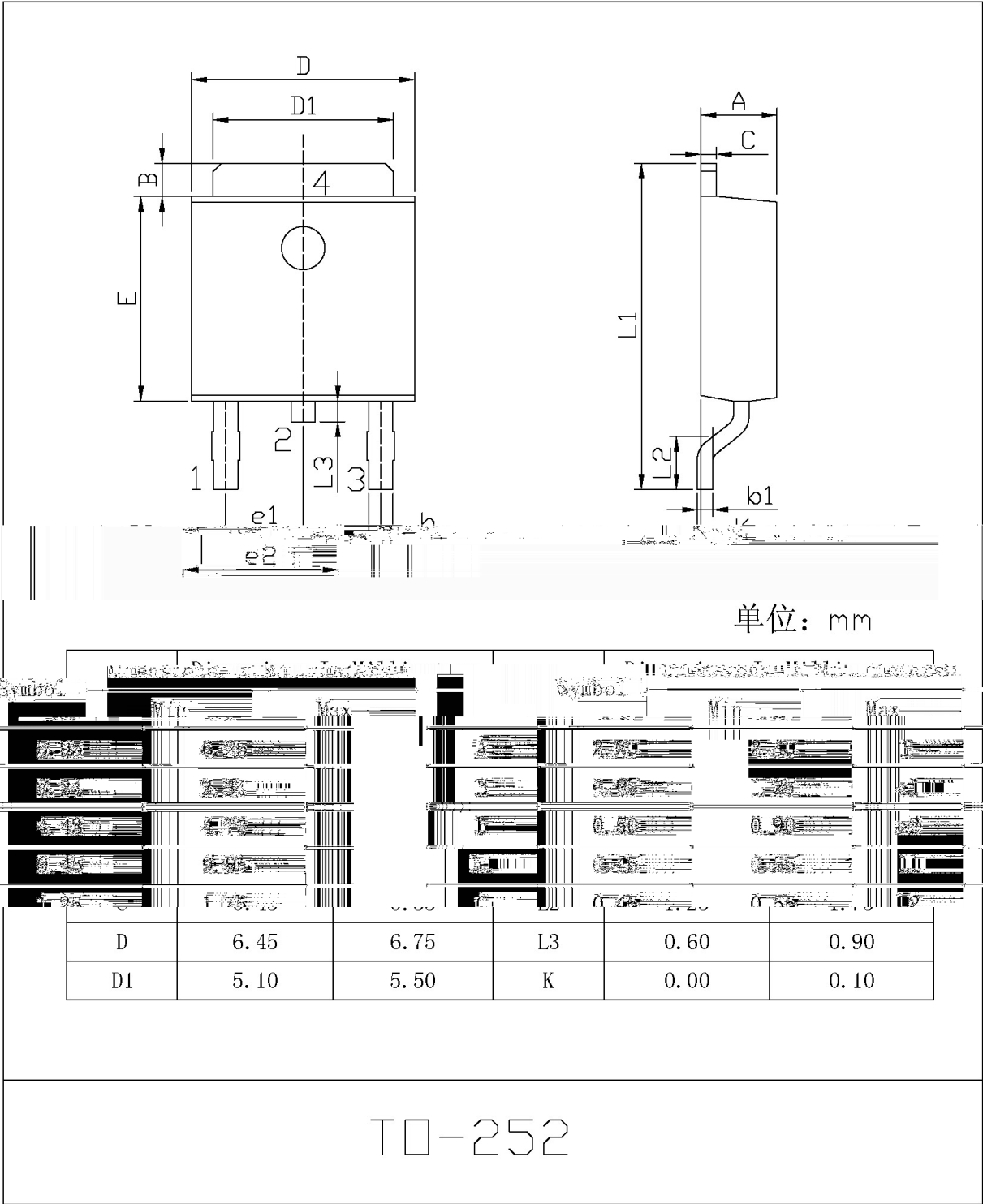
See Marking Instructions

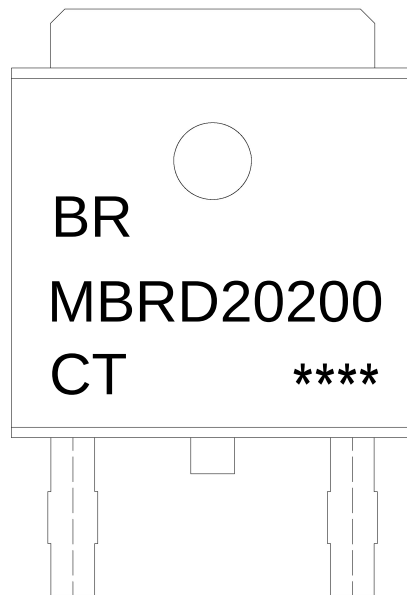


Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}	200	V
Peak Repetitive Forward Current	I_{FRM}	20	A
Average Rectified Forward Current	$I_{F(AV)}$	10	A
	$I_{F(AV)}^{(total)}$	20	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	150	A
Repetitive Peak Reverse Surge Current	I_{RRM}	1.0	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.0	$^{\circ}C/W$
Junction Temperature Range	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-65~150	$^{\circ}C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10A(T_j=25^{\circ}C)$		0.8	0.9	V
		$I_F=10A(T_j=125^{\circ}C)$		0.66	0.8	V
		$I_F=20A(T_j=25^{\circ}C)$		0.89	1.0	V
		$I_F=20A(T_j=125^{\circ}C)$		0.76	0.9	V
Instantaneous Reverse Current	I_R	$V_R=200V(T_j=25^{\circ}C)$			1.0	mA
		$V_R=200V(T_j=125^{\circ}C)$		0.4	50	mA
Voltage Rate of Change	dv/dt				10000	V/ μs







BR

MBRD20200

CT:

Note:

BR:

Company Code

MBRD20200

Product Type

CT:

Internal Structure

****:

Lot No. Code, code change with Lot No



说明：

- 1、预热温度 150 ~ 180°C，时间 60 ~ 90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	6	30,000	13" ×16	360×360×50	380×335×366

套管包装 / TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180