

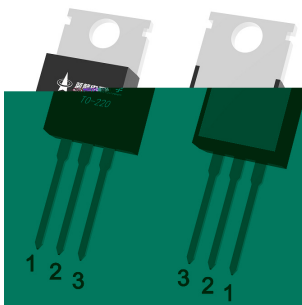
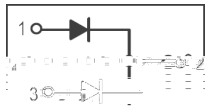
Rev.K May.-2026

TO-220

Schottky Barrier Diode in a TO-220 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 Cathode PIN 3 Anode

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	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}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	2.0	°C/W
Junction Temperature Range	T_j	175	°C
Storage Temperature Range	T_{stg}	-55 175	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10A(T_C=25^{\circ}C)$			0.85	V
		$I_F=10A(T_C=125^{\circ}C)$			0.7	V
		$I_F=20A(T_C=25^{\circ}C)$			0.95	V
		$I_F=20A(T_C=125^{\circ}C)$			0.85	V
Instantaneous Reverse Current	I_R	$V_R=100V(T_C=25^{\circ}C)$			0.15	mA
		$V_R=100V(T_C=125^{\circ}C)$			150	mA
Voltage Rate of Change	dv/dt				10000	V/ μs

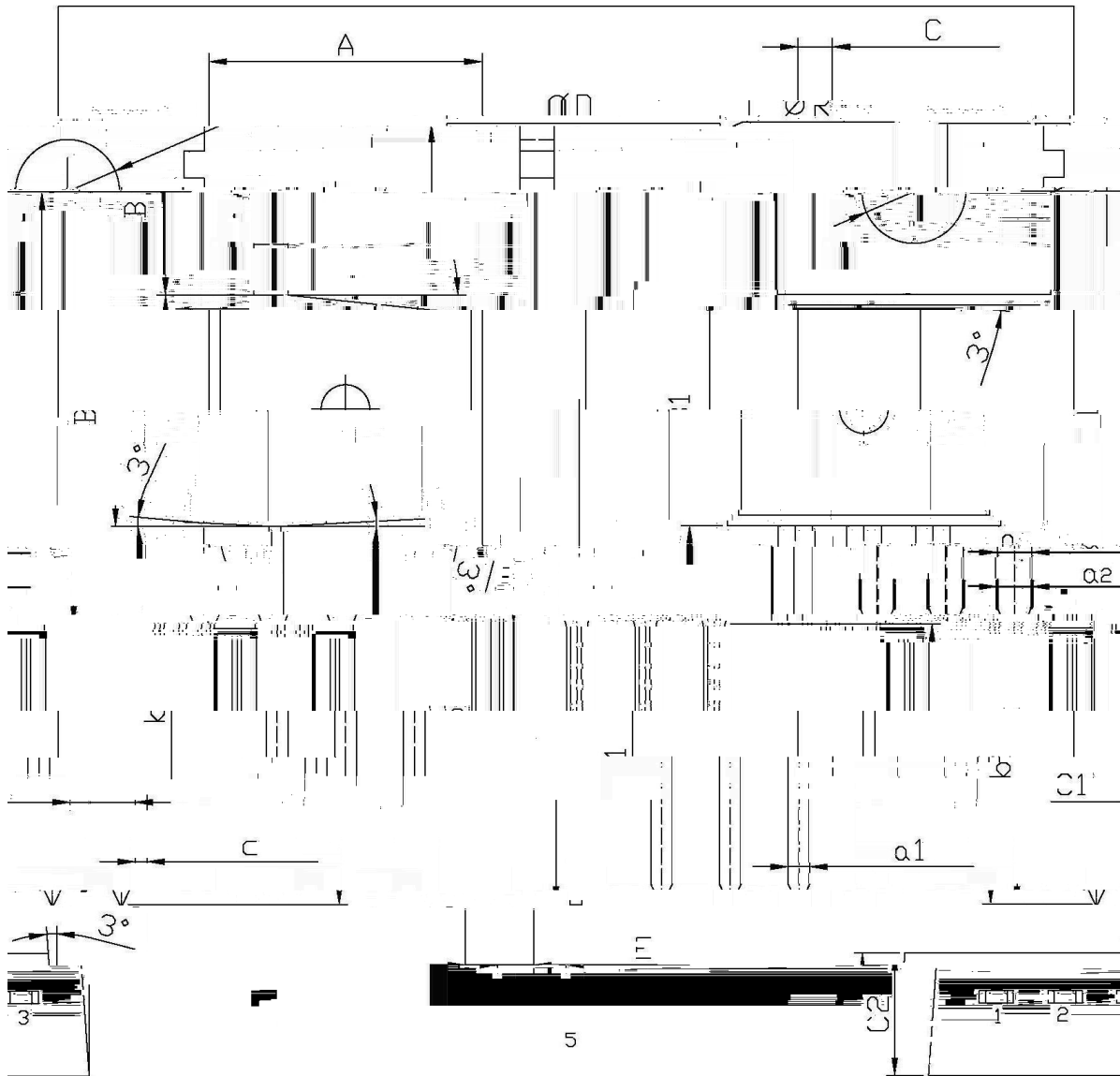


150 ————

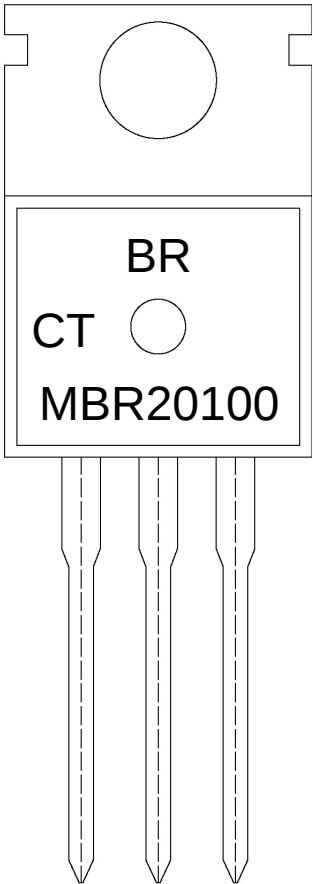
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TQ-220

单位: mm

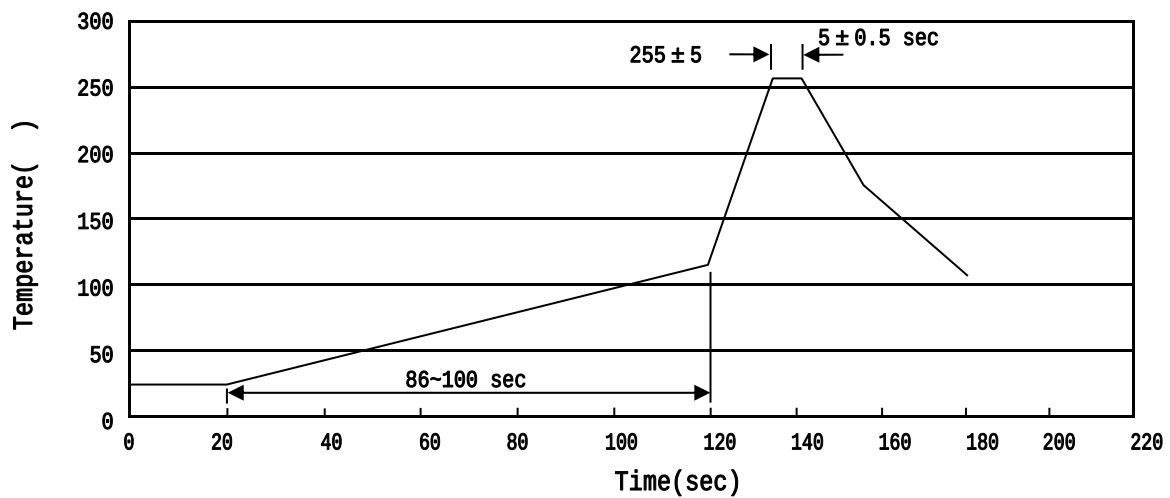


Dimensions in millimeters			Dimensions in millimeters		
Symbol	Min	Max	Symbol	Min	Max
9.8	10.2	12.5	14.7	15.7	16.7
9.0	9.4	10.2	15.7	16.1	16.7
2.2	2.6	3.0	12.6	13.6	14.6
0.6	0.7	0.9	0.6	0.7	0.9
1.32	0.4	0.6	0.6	0.7	0.9
2.74	4.3	4.7	2.34	2.34	2.34
1.45			1.25		



BR	
MBR20100	
CT:	

Note:	
BR:	Company Code
MBR20100	Product Type Code
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | | 5±0.5sec; | | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

270±5	10±1 sec.	Temp.:270±5℃	Time:10±1 sec
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/ BULK

Package Type	Units					Dimension (unit mm ³)		
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180