TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

Low power loss, high efficiency.

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

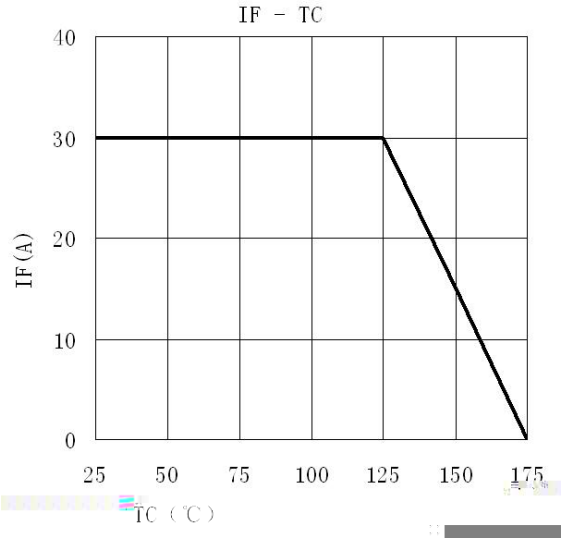


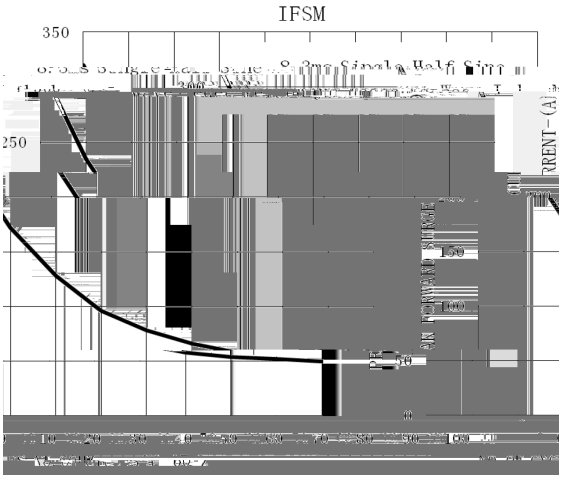
PIN1 Anode PIN 2 Cathode PIN 3 Anode

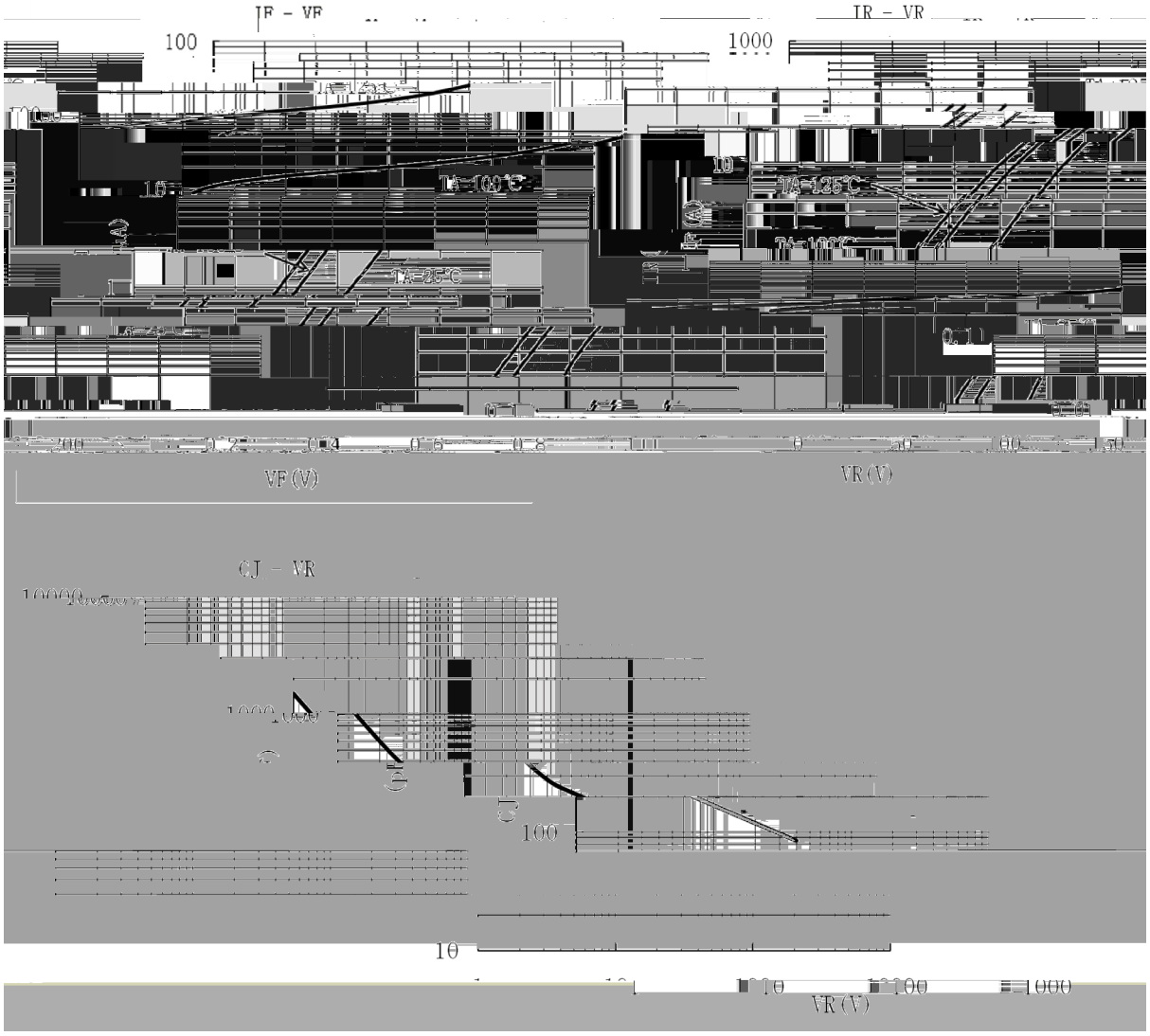
See Marking Instructions

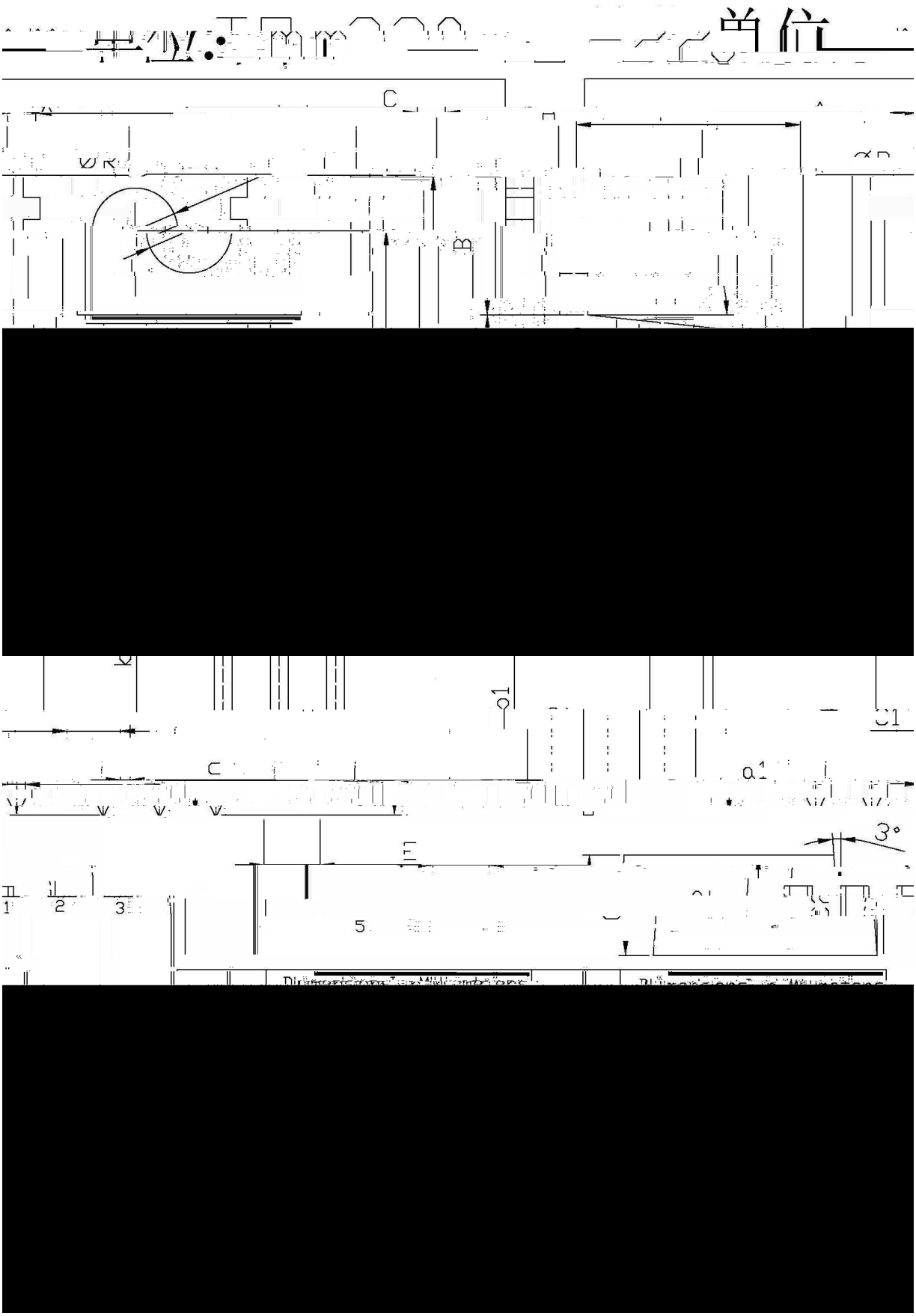
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 200 | V |
| Working Peak Reverse Voltage | $V_{RWM}$ | 200 | V |
| Average Rectified Forward Current | $I_{F(AV)}$ | 15 | A |
| | $I_{F(AV)\ total}$ | 30 | A |
| Non-Repetitive Peak Forward Surge Current | $I_{FSM}$ | 320 | A |
| Thermal Resistance Junction to Case | $R_{Jc}$ | 2.2 | /W |
| Junction Temperature Range | $T_j$ | 175 | |
| Storage Temperature Range | $T_{stg}$ | -40 175 | |

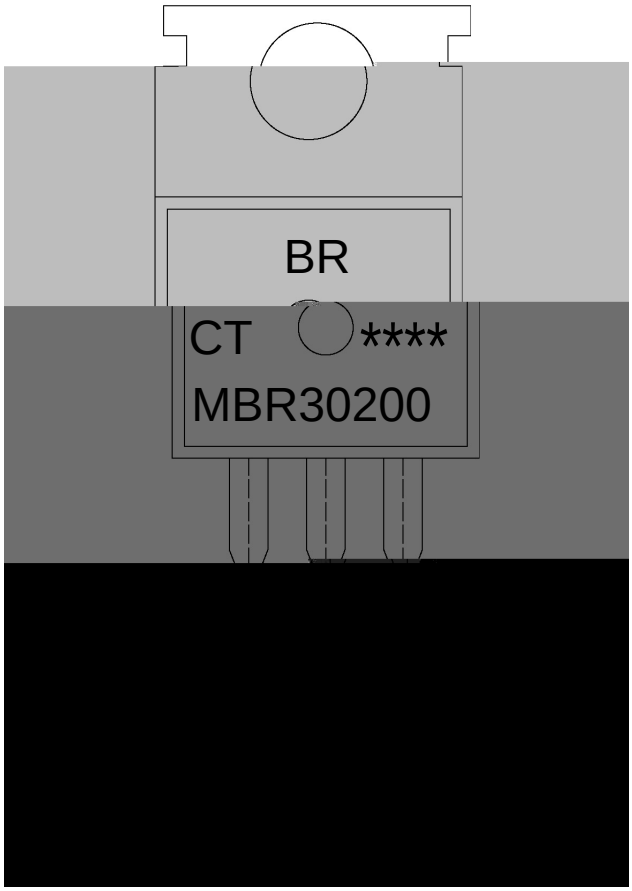
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse Voltage | $V_{BR\ R}$ | $I_R$ =1mA($T_a$=25 ) | 200 | | | V |
| Forward Voltage | $V_F$ | $I_F$ =15A($T_a$=25 ) | | 0.86 | 0.92 | V |
| | | $I_F$ =15A($T_a$=125 ) | | | 0.78 | V |
| | | $I_F$ =20A($T_a$=25 ) | | 0.89 | 0.95 | V |
| | | =20A($T_a$=125 ) | | | 0.82 | V |
| | | =200V($T_a$=25 ) | | | 100 | uA |
| | | =200V($T_a$=125 ) | | | 5 | mA |


IF - TC
40
30
20
10
0
IF(A)
25
50
75
100
125
150
175
TC (°C)


IFSM
350
250
150
100


IF - VF
100
10
1
0.1
TA=100°C
TA=25°C
VF(V)
IR - VR
1000
100
10
TA=125°C
TA=100°C
0.1
VR(V)
CJ - VR
100
10
VR(V)






BR

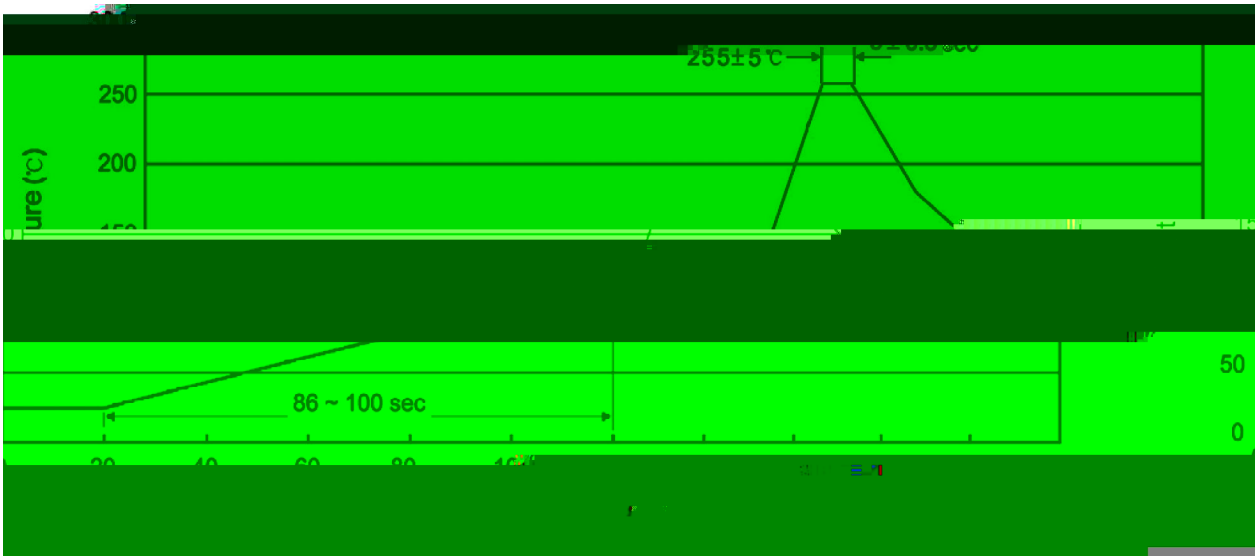
MBR30200

CT:

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Note:

| | |
|---|---|
| BR: | Company Code |
| MBR30200 | Product Type. |
| CT: | Internal Structure |
| ****: | Lot No. Code, code change with Lot No. |




Note:

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