

Rev.H Jul.-2018

WR0553 肖特基二极管

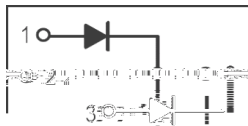
Schottky Barrier Diode in a TO-220 Plastic Package.

低正向压降,低功率损耗,高效率运行。

Low forward voltage drop, low power losses, High efficiency operation.

适用于高频逆变器,开关电源,续流二极管, OR-ing 二极管, dc-to-dc 转换器和反向电池保护。

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.



PIN1 阳极      PIN 2 阴极      PIN 3 阳极

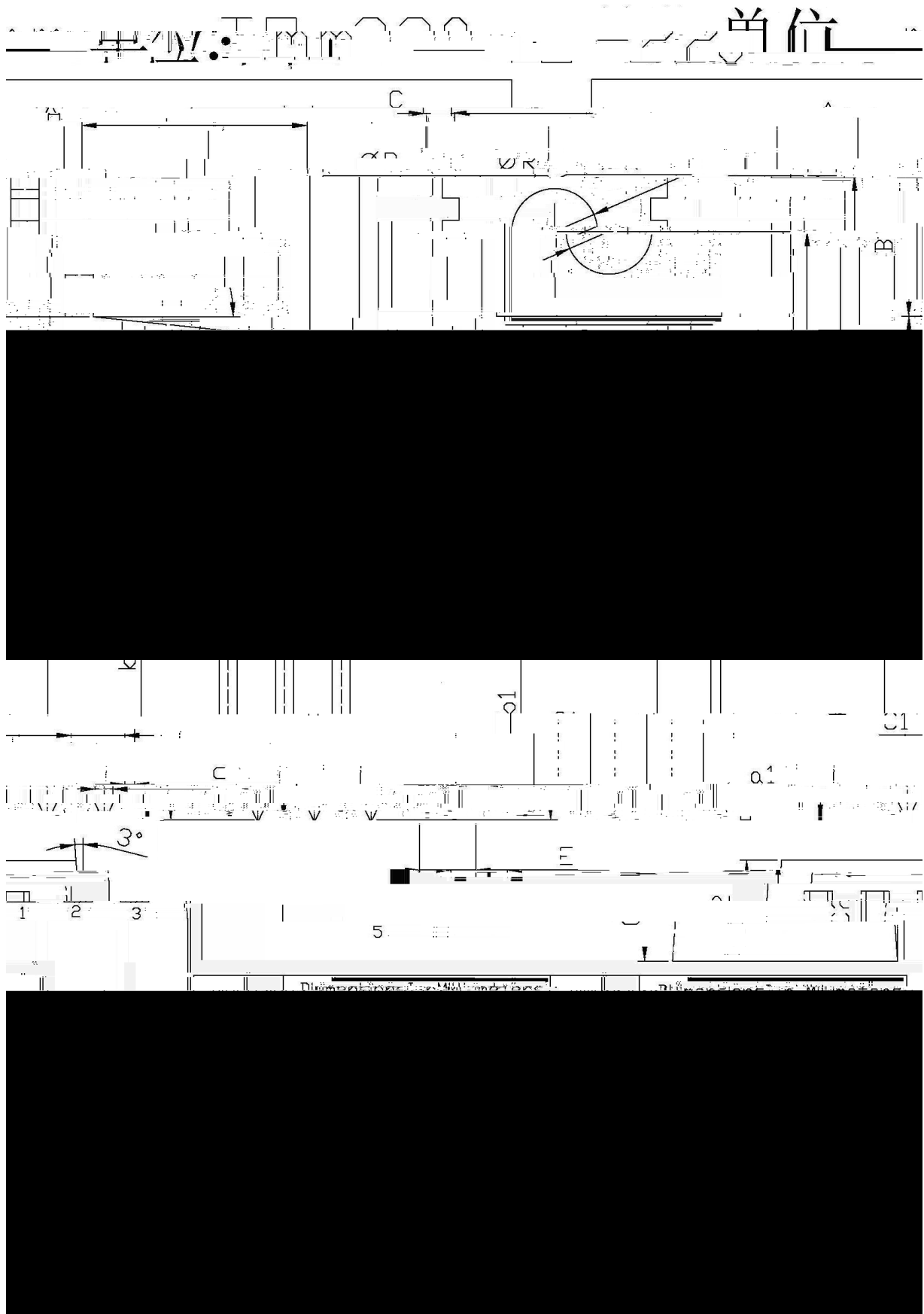
参见“见” See Marking Instructions.

| Parameter                                                                              | Symbol                            | Rating        | Unit |
|----------------------------------------------------------------------------------------|-----------------------------------|---------------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RM}$<br>$V_{RSM}$<br>$V_{DC}$ | 150           | V    |
| RMS Reverse Voltage                                                                    | $V_{RMS}$                         | 105           | V    |
| Average Rectified Forward Current                                                      | $I_{F(AV)}$                       | $2 \times 10$ | A    |
| Non Repetitive Peak Surge Current                                                      | $I_{FSM}$                         | 120           | A    |
| Thermal Resistance Junction to Case                                                    | $R_{\theta Jc}$                   | 2.8           | /W   |
| Junction and Storage Temperature Range                                                 | $T_j$ $T_{stg}$                   | -55 +150      |      |

| Parameter                 | Symbol   | Test Conditions                                       | Min | Typ | Max | Unit |
|---------------------------|----------|-------------------------------------------------------|-----|-----|-----|------|
| Breakdown Reverse Voltage | $V_{BR}$ | $I_R=1mA(T_a=25^\circ C)$<br>$I_F=5A(T_a=25^\circ C)$ | 150 |     |     | V    |

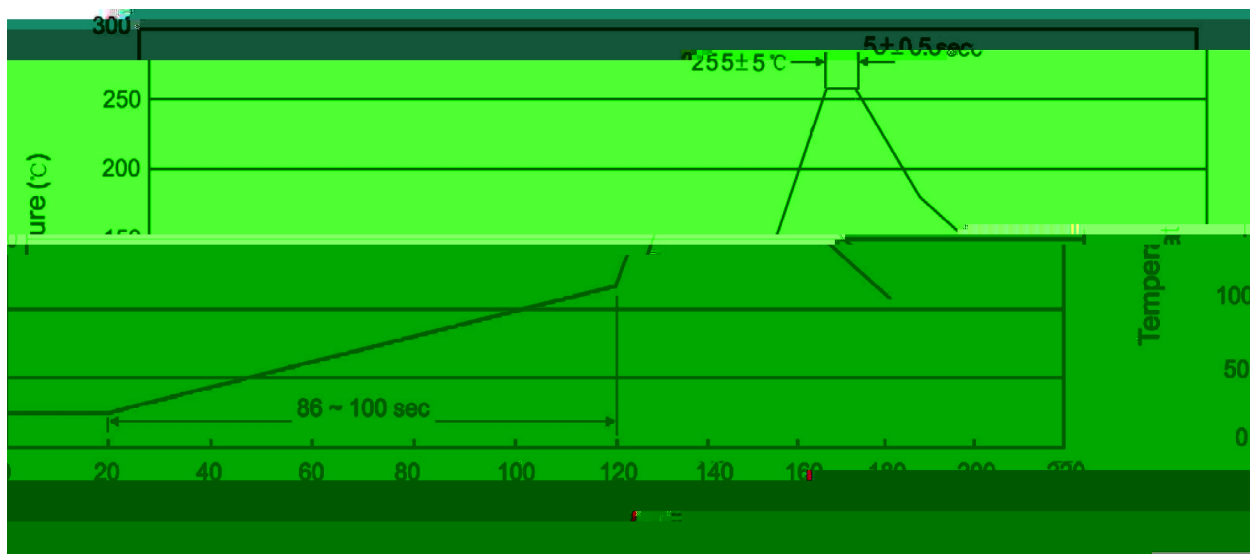
Forward Voltage  $V_F$





Rev.H Jul.-2018





曲线

1. 预加热: 25~150℃, 时间: 60~90sec;
2. 峰值温度: 255±5℃, 持续时间: 5±0.5sec;
3. 冷却速度: 2~10℃/sec.

Note:

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

温度: 270±5℃

时间: 10±1 sec.

Temp.: 270±5

Time: 10±1 sec

批量 / BULK

| Package Type | Units     |                |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|-----------|----------------|-----------------|-----------------------|-----------------|-----------------------------------|-------------|-------------|
|              | Units/Bag | Bags/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Bag                               | Inner Box   | Outer Box   |
| TO-220/F     | 200       | 10             | 2,000           | 5                     | 10,000          | 135×190                           | 237×172×102 | 560×245×195 |

管 / TUBE

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |            |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|------------|-------------|
|              | Units/Tube | Tubes/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Tube                              | Inner Box  | Outer Box   |
| TO-220/F     | 50         | 20              | 1,000           | 5                     | 5,000           | 532×31.4×5.5                      | 555×164×50 | 575×290×180 |