

WR0596 超快恢复二极管

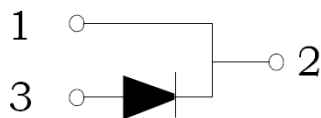
Ultrafast Recovery Diode in a TO-263 Plastic Package.

采用外延工艺生产超快恢复二极管，具有反向漏电流低、可靠性高。

Silicon epitaxial process to produce ultrafast recovery diode with low reverse leakage current and high reliability.

适用于高频、高压、大电流整流二极管、续流二极管。

For high frequency, high voltage, high current rectifier diode, freewheeling diode.



PIN1 阳极

PIN 2 4 阴极

PIN 3 阳极

请参见《标识说明》 See Marking Instructions

| Parameter                                   | Symbol          | Rating        | Unit |
|---------------------------------------------|-----------------|---------------|------|
| Peak Repetitive Reverse Voltage             | $V_{RRM}$       | 600           | V    |
| RMS Voltage                                 | $V_{RMS}$       | 420           | V    |
| DC Blocking Voltage                         | $V_{DC}$        | 600           | V    |
| Maximum Average Forward Current             | $I_F$           | $1 \times 30$ | A    |
| Peak forward surge current                  | $I_{FSM}$       | 300           | A    |
| Typical Thermal Resistance Junction to Case | $R_{\theta JC}$ | 2.0           | /W   |
| Junction Temperature Range                  | $T_J$           | 150           |      |
| Storage Temperature Range                   | $T_{stg}$       | -55 150       |      |

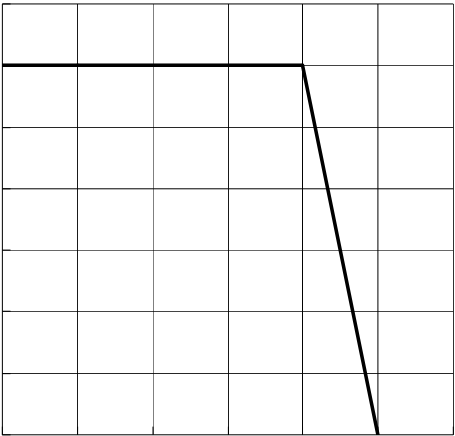
| Parameter                                             | Symbol   | Test Conditions                      | Min | Typ | Max  | Unit |
|-------------------------------------------------------|----------|--------------------------------------|-----|-----|------|------|
| Forward Voltage                                       | $V_F$    | $I_F=5.0A$ $T_C=25$                  |     |     | 1.35 | V    |
|                                                       |          | $I_F=5.0A$ $T_C=150$                 |     |     | 1.15 |      |
|                                                       |          | $I_F=30A$ $T_C=25$                   |     |     | 1.65 |      |
|                                                       |          | $I_F=30A$ $T_C=150$                  |     |     | 1.25 |      |
| Instantaneous Reverse Current<br><small>Note1</small> | $I_R$    | $V_R=600V$ $T_a=25$                  |     |     | 0.25 | mA   |
|                                                       |          | $V_R=420V$ $T_a=150$                 |     |     | 1    |      |
|                                                       |          | $V_R=600V$ $T_a=150$                 |     |     | 2    |      |
| Reverse Recovery Time                                 | $t_{rr}$ | $I_F=0.5A$ $I_{RR}=0.25A$ $I_R=1.0A$ |     |     | 50   | ns   |

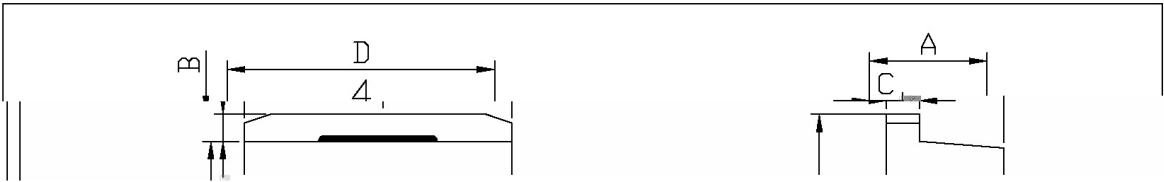
Notes

- Short duration pulse test used to minimize self-heating effect.
- Unless otherwise noted, values for the parameters of a single chip



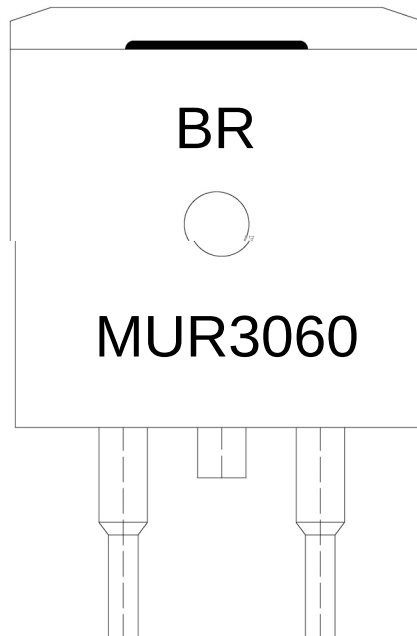
IF - TC





单位: mm

| Symbol          | Dimensions In Millimeters |       | Symbol          | Dimensions In Millimeters |       |
|-----------------|---------------------------|-------|-----------------|---------------------------|-------|
|                 | Min                       | Max   |                 | Min                       | Max   |
| A               | 4.30                      | 4.70  | E <sub>L</sub>  | 0.00                      | 0.40  |
| B               | 1.00                      | 1.40  | e <sub>1</sub>  | 2.34                      | 2.74  |
| b <sub>2</sub>  | 0.70                      | 0.90  | e <sub>2</sub>  | 4.88                      | 5.28  |
| b <sub>1</sub>  | 1.15                      | 1.35  | L <sub>1</sub>  | 15.00                     | 16.00 |
| b <sub>2L</sub> | 0.40                      | 0.60  | L <sub>2L</sub> | 2.24                      | 2.84  |
| C               | 1.20                      | 1.40  | L <sub>3</sub>  | 1.20                      | 1.60  |
| D               | 9.80                      | 10.20 |                 |                           |       |



Б " X

EU X

P XU6393 X

---- X

Note:

BR:

MUR3060 X

\*\*\*\*:

Б 3 " П

Б F β 3 N

Б 1 F П N П 1 4 1 F П N П

Company Code

Product Type.

Lot No. Code, code change with Lot No.

