## 5 é / Descriptions

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Ultrafast Recovery Diode in a TO-220AC Plastic Package.

## ¤ ª / Features

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

## Ð ÷ / Applications

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

## Ã W ] Ô · / Equivalent Circuit

## • Û - æ / Pinning

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PIN1o•2 y Cathode PIN 3 y Anode

## Z Ü B , M V / $h_{FE}$ Classifications & Marking

• - ~ ª ¢ož See Marking Instructions

## Ã a ? d / Absolute Maximum Ratings(Ta=25 ; )

| @ ƒ<br>Parameter | … Z<br>Symbol | ƒ ›<br>Rating | % y<br>Unit |
|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 600 | V |
| RMS Voltage | $V_{RMS}$ | 420 | V |
| DC Blocking Voltage | $V_{DC}$ | 600 | V |
| Average Forward Current | $I_F$ | 1 h 10 | A |
| Peak forward surge current | $I_{FSM}$ | 100 | A |
| Typical Thermal Resistance Junction to Case | $R_{Jc}$ | 1.5 | /W |
| Junction Temperature Range | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

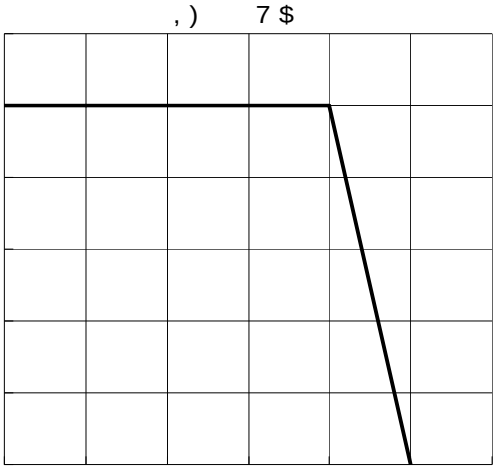
## Ô4ì × ? d / Electrical Characteristics(Ta=25 ; )

| @ ƒ<br>Parameter | … Z<br>Symbol | y ¡ Ú ^<br>Test Conditions | Â 4 ›<br>Min | Á º ›<br>Typ | Â Ý ›<br>Max | % y<br>Unit |
|---|---|---|---|---|---|---|
| Reverse Voltage | $V_R$ | $I_R$=1mA | 600 | | | V |
| Forward Voltage | $V_F$ | $I_F$=2.0A $T_C$=25 | | 1.0 | 1.2 | V |
| | | $I_F$=2.0A $T_C$=150 | | 0.73 | 1.0 | |
| | | $I_F$=10A $T_C$=25 | | 1.3 | 1.5 | |
| | | $I_F$=10A $T_C$=150 | | 1.1 | 1.2 | |
| Instantaneous Reverse Current(Note1) | $I_R$ | $V_R$=600V $T_a$=25 | | | 10 | A |
| | | $V_R$=480V $T_a$=150 | | | 100 | |
| | | $V_R$=600V $T_a$=150 | | | 500 | |
| Reverse Recovery Time | $t_{rr}$ | $I_F$=0.5A $I_R$=1.0A $I_{RR}$=0.25A | | | 50 | ns |

h Notes Ö

1. … â ? y ¡ ž • k Y @ O × 5 ½ | •ož Short duration pulse test used to minimize self-heating effect.
2. ” ³ Ô ð h ¢ k ƒ › %² / Ì @ ƒož Unless otherwise noted, values for the parameters of a single chip

## Ô ? d • Ž ¢ / Electrical Characteristic Curve



BRMUR1060AC
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## , M y ƒ / Marking Instructions

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Note:

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|---|---|
| BR: | Company Code |
| MUR1060 y | Product Type. |
| ****: | Lot No. Code, code change with Lot No. |