

## / Descriptions

TO-220AC

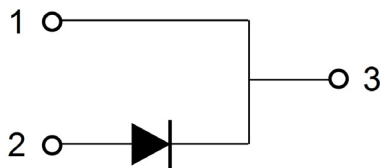
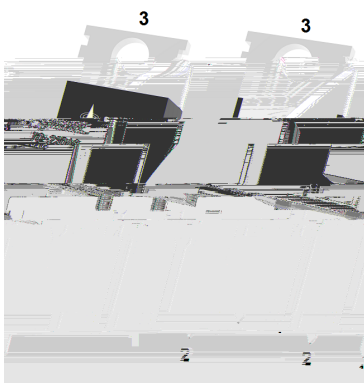
Fast Recovery Epi Diodes in a TO-220AC Plastic Package.

## / Features

AEC-Q101

High frequency operation, High surge forward current capability, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

For high frequency, high voltage, high current rectifier diode, freewheeling diode, Meet the stringent requirements of automotive applications.



PIN 1,3 Cathode PIN2 Anode

## / Marking

See Marking Instructions.

| @ f                                    | ... Z                                                                          | f >     | % y |
|----------------------------------------|--------------------------------------------------------------------------------|---------|-----|
| Continuous Forward Current             | I <sub>F</sub>                                                                 | 30      | A   |
| Reverse recovery peak current          | I <sub>RM</sub> , I <sub>F</sub> =30A<br>V <sub>R</sub> =200V<br>di/dt=200A/us | 3.1     |     |
| Non-repetitive forward surge current   | I <sub>FSM</sub> , tp=8.3ms                                                    | 200     |     |
| Thermal Resistance Junction to Ambient | R <sub>JA</sub>                                                                | 75      | / W |
| Junction Temperature Range             |                                                                                | -55 150 |     |
| Storage Temperature Range              | T <sub>stg</sub>                                                               |         |     |

| @ f<br>Parameter              | ... Z<br>Symbol | y i Ú ^<br>Test Conditions                 | Â 4 ><br>Min | Á ° ><br>Typ | Â Ý ><br>Max | % y<br>Unit |
|-------------------------------|-----------------|--------------------------------------------|--------------|--------------|--------------|-------------|
| Reverse Voltage               | V <sub>R</sub>  | I <sub>R</sub> =100uA                      | 660          | 700          | -            | V           |
| Forward Voltage               |                 | I <sub>F</sub> =30A    T <sub>C</sub> =25  | 1.5          | 1.75         | 2.0          |             |
| Instantaneous Reverse Current | I <sub>R</sub>  | V <sub>R</sub> =650V    T <sub>a</sub> =25 | -            | 50           | 1000         | nA          |
| Reverse Recovery Time         | t               |                                            |              |              |              |             |

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ = ) ¢ / Package Dimensions

, M y f / Marking Instructions

BR Q  
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MUR30650

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Note:  
BR: Company Code  
Q y Automobile halogen-free product Code  
MUR30650 y Product Type Code  
\*\*\*\*: Lot No. Code, code change with Lot No

G PD t ... • Ž Ć ( x / ) / Temperature Profile for Dip Soldering(Pb-Free)

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- 1o• Ä ½ “ † 25 ½150 - k ž • 60 ½90sec;
- 2o• Q > “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•D N ò i Ò 0 , † 2 ½10 -

Note:

- 1.Preheating:25~150 - , Time:60~90sec.
- 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.