

BRMUR30650ACQ

Rev.A Mar.-2024

/ Descriptions

TO-220AC

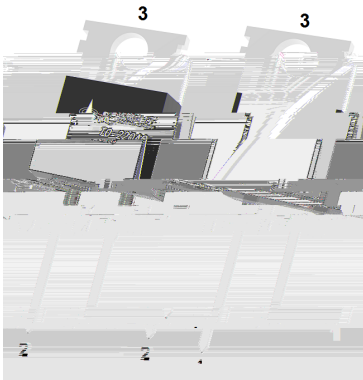
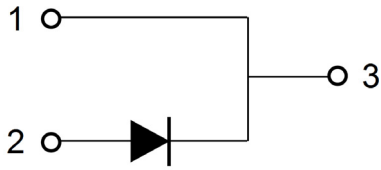
Fast Recovery Epi Diodes in a TO-220AC Plastic Package.

/ 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.

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|--|--|-----|-----|
| Continuous Forward Current | I_F | 30 | |
| Reverse recovery peak current | $I_{RM}, I_F=30A$ $V_R=200V$ $di/dt=200A/us$ | 3.1 | A |
| Non-repetitive forward surge current | $I_{FSM}, tp=8.3ms$ | 200 | |
| Thermal Resistance Junction to Ambient | R_{JA} | 75 | /W |
| Storage Temperature Range | T_{stg} | | |

| @ f Parameter | ... Z Symbol | y i Ú ^ Test Conditions | Â 4 › Min | Á ° › Typ | Â Ý › Max | % y Unit |
|-------------------------------|-----------------|----------------------------|--------------|--------------|--------------|-------------|
| Reverse Voltage | V_R | $I_R=100uA$ | 660 | 700 | - | V |
| Forward Voltage | | $I_F=30A$ $T_C=25$ | 1.5 | 1.75 | 2.0 | |
| Instantaneous Reverse Current | I_R | $V_R=650V$ $T_a=25$ | - | 50 | 1000 | nA |
| Reverse Recovery Time | t | | | | | |

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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 ϕ (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.