

BRMUR30650ACQ

Rev.A Mar.-2024

/ Descriptions

TO-220AC

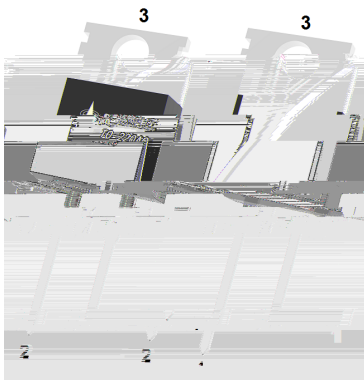
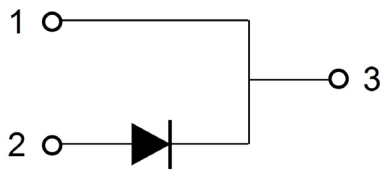
Fast Recovery Epi Diodes in a TO-220AC Plastic Package.

/ 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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@ f	... Z	f >	% y
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					

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ =) ϕ / Package Dimensions

, M y f / Marking Instructions

BR Q

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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)

^a ϕ y

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.