

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Frequency Operation
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Planar Structure Die and Soft Recovery Characteristics

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 0.5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3060BL	MUR3060BL	600V	420V	600V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

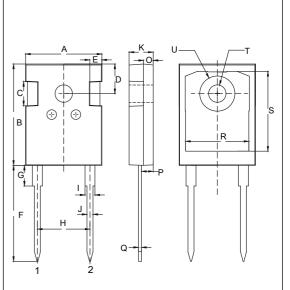
Average Rectified Forward Current	I <sub>F(AV)</sub>	30A	T <sub>C</sub> =140⁰C
Peak Forward Surge Current	I <sub>FSM</sub>	300A	8.3ms,Half Sine
Instantaneous Forward Voltage	V <sub>F</sub>	1.50V(Max.) 1.30V(Typ.) 1.40V(Max.)	I <sub>F</sub> =30A; T <sub>J</sub> =25°C I <sub>F</sub> =30A; T <sub>J</sub> =25°C I <sub>F</sub> =30A; T <sub>J</sub> =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μΑ 100μΑ	TJ=25⁰C; TJ=125⁰C
Maximum Reverse Recovery Time	t <sub>rr</sub>	50ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A

Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

Internal Structure

PIN 1 • CASE

# 30 Amp Ultra Fast Recovery Rectifier 600 Volts



**TO-247AD** 

DIM	INCHES		MM		NOTE
וויט	MIN	MAX	MIN	MAX	NOTE
А	0.602	0.642	15.30	16.30	
В	0.799	0.839	20.30	21.30	
С	0.189	0.205	4.80	5.20	
D	0.2	242	6.	15	BSC.
Е	0.091	0.106	2.30	2.70	
F	0.768	0.807	19.50	20.50	
G		0.189		4.80	
Н	0.4	128	10	.88	BSC.
Ι	0.075	0.087	1.91	2.21	
J	0.044	0.054	1.11	1.36	
Κ	0.189	0.205	4.80	5.20	
0	0.073	0.085	1.85	2.15	
Р	0.087	0.103	2.21	2.61	
Q	0.020	0.030	0.51	0.75	
R	0.512	0.535	13.00	13.60	
S	0.640	0.663	16.25	16.85	
Т	0.134	0.150	3.40	3.80	Φ
U		0.287		7.30	Φ



# **Curve Characteristics**

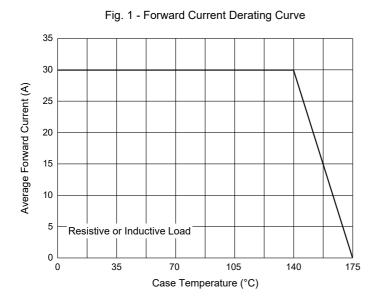
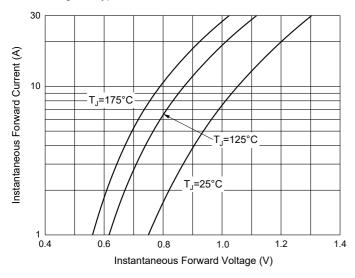
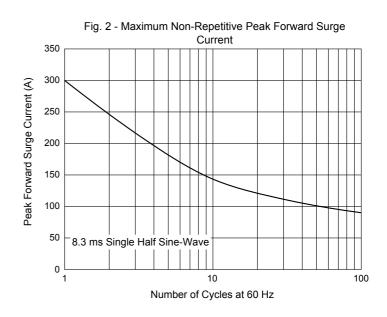
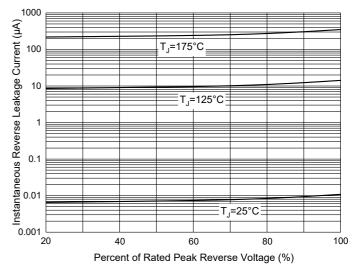


Fig. 3 - Typical Instantaneous Forward Characteristics











## **Ordering Information**

Device	Packing		
Part Number-BP	Bulk:30pcs/Tube,360pcs/Box,1.8Kpcs/Carton		

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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