

## Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Super Fast Switching For High Efficiency
- Low Reverse Leakage
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- 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

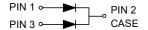
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3030PT	MUR3030PT	300V	210V	300V

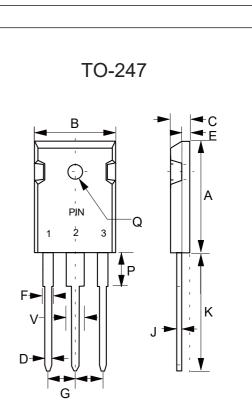
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20KHz Square Wave) - 50% Duty Cycle	I <sub>F(AV)</sub>	30A	T <sub>C</sub> =130⁰C
Peak Forward Surge Current	I <sub>FSM</sub>	180A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.07V(Typ) 1.35V(Max) 1.22V(Typ) 1.5V(Max)	I <sub>F</sub> =15A,T <sub>J</sub> =25°C I <sub>F</sub> =30A,T <sub>J</sub> =25°C
		0.95V(Typ) 1.05V(Max) 1.12V(Typ) 1.25V(Max)	I <sub>F</sub> =15A,T <sub>J</sub> =125°C I <sub>F</sub> =30A,T <sub>J</sub> =125°C
Maximum Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 0.1mA	Tյ=25⁰C; Tյ=125⁰C
Maximum Reverse Recovery Time	t <sub>rr</sub>	35ns	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





**30 Amp** 

**Super Fast** 

**Recovery Rectifier** 

300 Volts

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.787	0.866	20.00	22.00	
В	0.598	0.638	15.20	16.20	
С	0.185	0.208	4.70	5.30	
D	0.035	0.059	0.90	1.50	
Е	0.059	0.094	1.50	2.40	
F	0.067	0.091	1.70	2.30	
J	0.019	0.031	0.48	0.80	
Κ	0.748	0.833	19.00	21.15	
Р	0.122	0.189	3.10	4.80	
Q	0.118	0.150	3.00	3.80	Φ
V	0.106	0.134	2.70	3.40	
G	0.197	0.224	5.00	5.70	



## **Curve Characteristics**

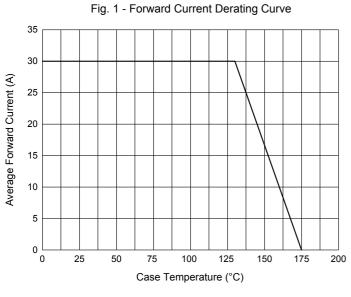


Fig. 3 - Typical Reverse Leakage Characteristics

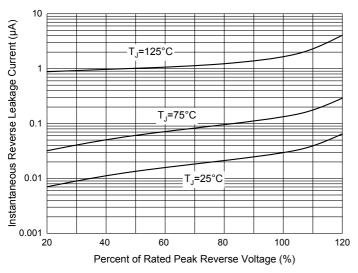
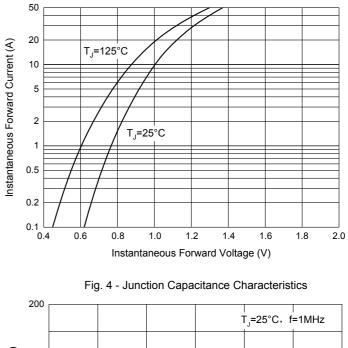
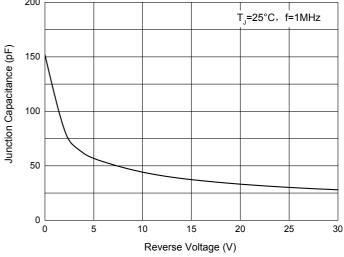


Fig. 2 - Typical Instantaneous Forward Characteristics







## **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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