

Features

- Multilayer Metal -Silicon Potential Structure
- Guardring for Over Voltage Protection
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage Drop

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 0.5 °C/WJunction to Case

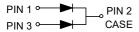
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MBR3045PT	MBR3045PT	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

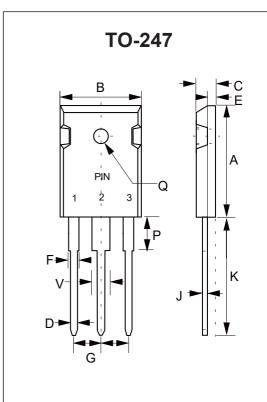
Average Rectified Forward Current	I _{F(AV)}	30A	T _C =120°C
Peak Forward Surge Current	I _{FSM}	275A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.50V(Typ) 0.55V(Max)	I _F =15A; T _J =25°C I _F =15A; T _J =25°C
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 50mA	T _J =25°C T _J =100°C
Typical Junction Capacitance	C _j	650pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure



30 Amp Schottky Barrier Rectifier 45 Volts



	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	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	
K	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	Ф
V	0.106	0.134	2.70	3.40	
G	0.197	0.224	5.00	5.70	

0.9

1.0



Curve Characteristics

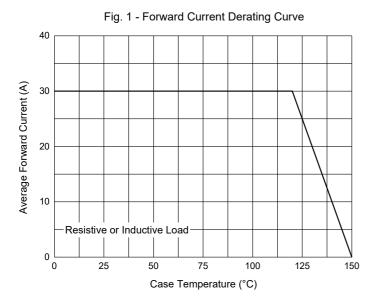
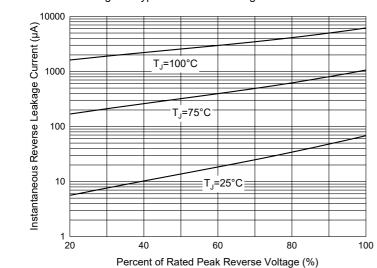


Fig. 3 - Typical Reverse Leakage Characteristics



20
T_J=125°C

T_J=125°C

T_J=75°C

0.5

T_J=25°C

0.1 - 0.0

0.1

0.2

0.3

0.4

0.5

Instantaneous Forward Voltage (V)

Fig. 2 - Typical Instantaneous Forward Characteristics



Ordering Information

Device	Packing		
Part Number-BP	Tube:30pcs/Tube, 360pcs/Box,1.8K/Ctn;		

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

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