# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

#### Features

- Guard ring for transient protection
- High surge capacity, High current capability
- Low power loss, High Efficiency
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Marking : type number

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C
- Mounting Torque: 5 in-lbs Maximum

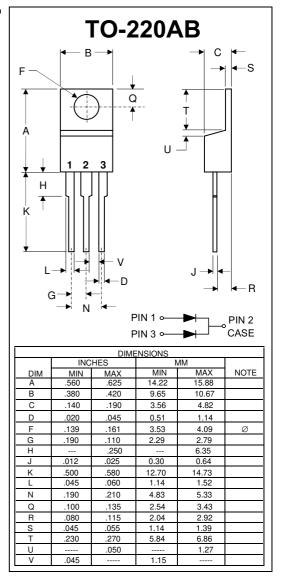
۰.	Mounting Torgue. 5 in-ibs Maximum						
	MCC Part Number	Maximum Rcurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage			
	MBR3030CT	30V	21V	30V			
	MBR3035CT	35V	24.5V	35V			
	MBR3040CT	40V	28V	40V			
	MBR3045CT	45V	31.5V	45V			
	MBR3050CT	50V	35V	50V			
	MBR3060CT	60V	42V	60V			

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

	-		
Average Forward Current	I <sub>F(AV)</sub>	30 A	T <sub>C</sub> =100°C
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MBR3030CT~3045CT MBR3050CT~3060CT	Vf	0.70V 0.84V 0.72V 0.80V 0.95V 0.85V	I <sub>FM</sub> =15A ; T <sub>J</sub> =25°C I <sub>FM</sub> =30A ; T <sub>J</sub> =25°C I <sub>FM</sub> =30A ; T <sub>J</sub> =125°C I <sub>FM</sub> =15A ; T <sub>J</sub> =25°C I <sub>FM</sub> =30A ; T <sub>J</sub> =25°C I <sub>FM</sub> =30A ; T <sub>J</sub> =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.2 mA	T <sub>J</sub> = 25°C
Typical Junction Capacitance MBR3030CT-3045CT MBR3050CT-3060CT	CJ	450pF 400pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V



## Schottky Barrier Rectifier 30 to 60 Volts



Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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#### **Revision: B**

#### RATING AND CHARACTERISTIC CURVES MBR3030CT thru MBR3060CT



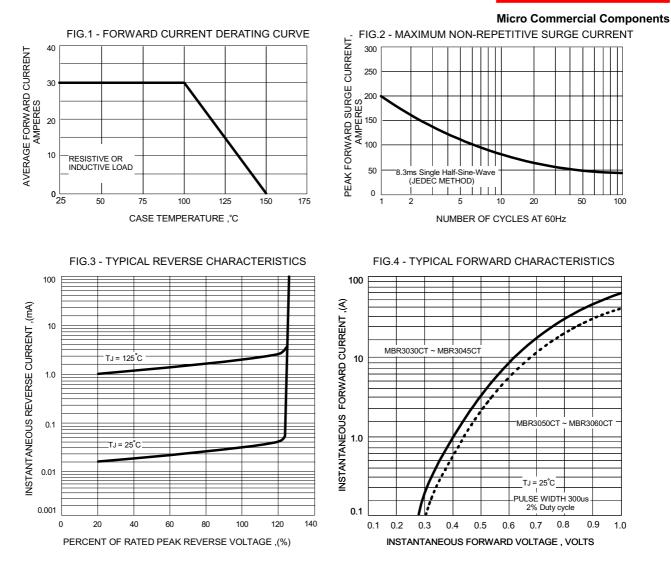
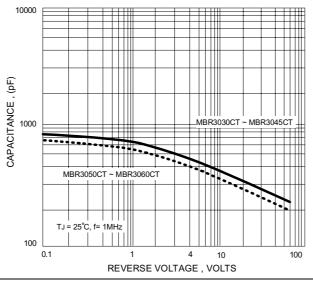


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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### **Ordering Information**

Device	Packing	
(Part Number)-BP	Bulk;1Kpcs/Box	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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