

**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
- Low Forward Voltage Drop
- High Current Capability, High Efficiency
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : type number
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information

# Maximum Ratings Operating Temperature: -55°C to +150°C Storage Temperature: -55°C to +175°C

MCC	Maximum	Maximum Maximum			
Catalog	Recurrent	RMS	DC		
Number	Peak Reverse	Voltage	Blocking		
	Voltage		Voltage		
MBRB2520CT	20V	14V	20V		
MBRB2530CT	30V	21V	30V		
MBRB2535CT	35V	24.5V	35V		
MBRB2540CT	40V	28V	40V		
MBRB2545CT	45V	31.5V	45V		
MBRB2560CT	60V	42V	60V		

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

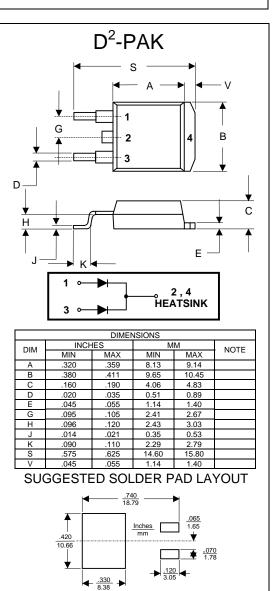
Lieuti characteri stics @ 25 C billess other wise specified			
Average Forward Current	I <sub>F(AV)</sub>	30 A	T <sub>A</sub> = 130°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 2520CT-2540CT 2545CT-2560CT	V <sub>F</sub>	.82V .75V	I <sub>FM</sub> = 30 A; per leg I <sub>FM</sub> = 15 A; per leg
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.2mA	T <sub>A</sub> = 25°C

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7. \*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

## MBRB2520CT

# THRU MBRB2560CT

### 30 Amp Schottky **Barrier Rectifier** 20 to 60 Volts



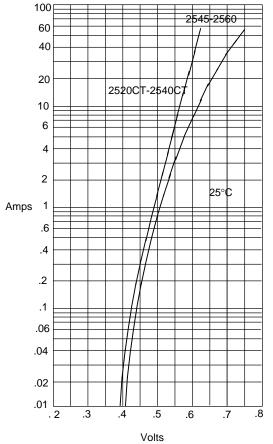
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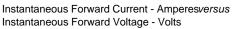


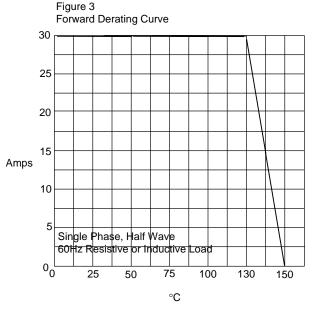
### MBRB2520CT thru MBRB2560CT

Figure 1

**Typical Forward Characteristics** 

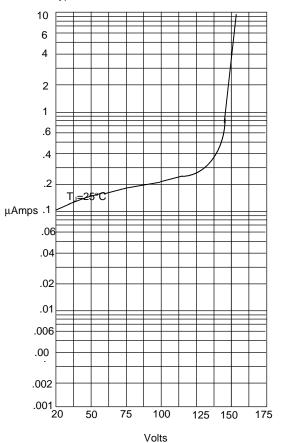




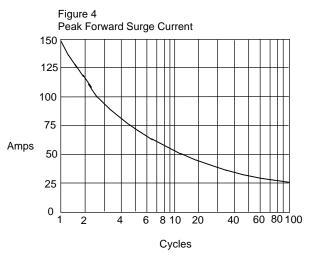


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Figure 2 Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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#### **Revision: D**



#### **Ordering Information :**

Device	Packing	
Part Number-TP	Tape&Reel: 800pcs/Reel	
Part Number-BP	Tube: 5Kpcs/Ctn	

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

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