

Micro Commercial Components

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

## Features

- Guard ring for transient protection
- Low Forward Voltage Drop
- High Current Capability, High Efficiency
- Low Power Loss
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : type number

# **Maximum Ratings**

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

	1	1	
MCC	Maximum	Maximum	Maximum
Catalog	Recurrent	RMS	DC
Number	Peak Reverse Voltage		Blocking
	Voltage	U	Voltage
MBRB1520CT	20V	14V	20V
MBRB1530CT	30V	21V	30V
MBRB1535CT	35V	24.5V	35V
MBRB1540CT	40V	28V	40V
MBRB1545CT	45V	31.5V	45V
MBRB1560CT	60V	42V	60V
MBRB1580CT	80V	56V	80V
MBRB15100CT	100V	70V	100V

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

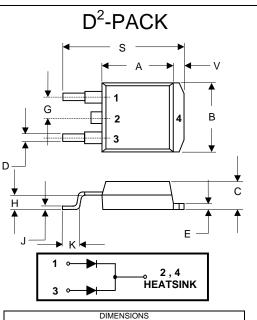
Average Forward Current	I <sub>F(AV)</sub>	15 A	T <sub>C</sub> = 105°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 1520CT-45CT 1560CT 1580CT-100CT	V <sub>F</sub>	.84V .75V .92V	I <sub>FM</sub> = 15A; IFM = 7.5A T <sub>J</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage 1520CT-45CT 1560CT-100CT 1520CT-45CT 1560CT 1580CT-100CT	I <sub>R</sub>	0.1mA 1.0mA 15mA 50mA 100mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C

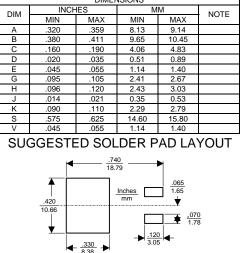
\*Pulse Test: Pulse Width 300 $\mu$ sec, Duty Cycle 2%

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# MBRB1520CT THRU MBRB15100CT

# 15 Amp Schottky Barrier Rectifier 20 to 100 Volts



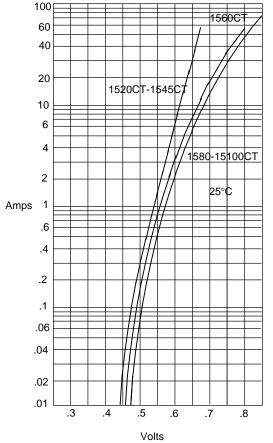


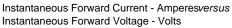
 $\cdot M \cdot C \cdot C \cdot$ 

## MBRB1520CT thru MBRB15100CT

Figure 1

Typical Forward Characteristics





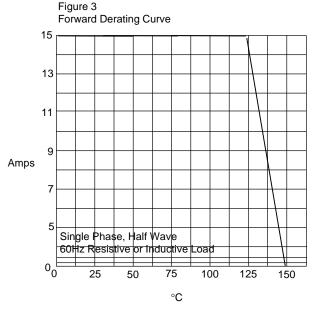
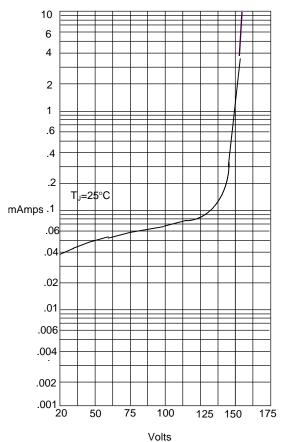
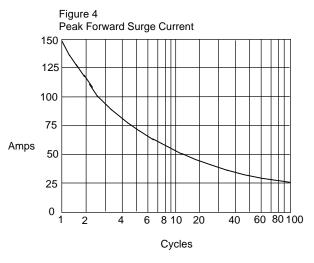


Figure 2 Micro Commercial Components Typical Reverse Characteristics



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: 3**



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