

Micro Commercial Components 21201 Itasca Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

## **Features**

- Metal of siliconrectifier, majorty carrier conducton
- Guard ring for transient protection
- Low power loss high efficiency
- · High surge capacity, High current capability

## **Maximum Ratings**

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

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1620CT	MBR1620CT	20V	14V	20V
MBR1630CT	MBR1630CT	30V	21V	30V
MBR1635CT	MBR1635CT	35V	24.5V	35V
MBR1640CT	MBR1640CT	40V	28V	40V
MBR1645CT	MBR1645CT	45V	31.5V	45V
MBR1660CT	MBR1660CT	60V	42V	60V

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

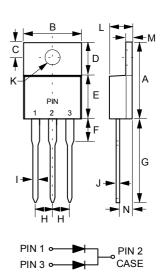
Average Forward Current	I <sub>F(AV)</sub>	16A	T <sub>C</sub> = 100°C
Current			
Peak Forward Surge Current	I <sub>FSM</sub>	125A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element 1620CT-1645CT 1660CT 1620CT-1645CT 1660CT	V <sub>F</sub>	.70V .80V .57V .70V	I <sub>FM</sub> = 8A T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.1mA 50mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C
Typical Junction Capacitance 1620CT-1645CT 1660CT	CJ	300pF 400pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

# MBR1620CT THRU MBR1660CT

16 Amp Schottky Barrier Rectifier 20 to 60 Volts

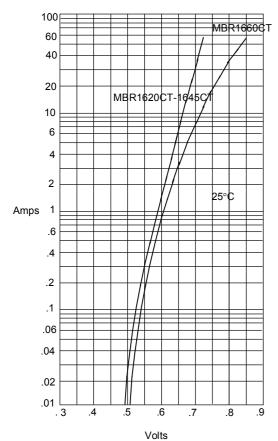
## **TO-220AB**



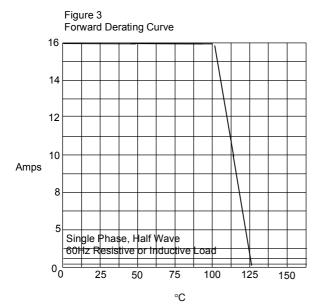
	DIMENSIONS								
	INCHES		ММ						
DIM	MIN	MAX	MIN	MAX	NOTE				
Α	.560	.625	14.22	15.88					
В	.380	.420	9.65	10.67					
С	.100	.135	2.54	3.43					
D	.230	.270	5.84	6.86					
E	.380	.420	9.65	10.67					
F		.250		6.35					
G	.500	.580	12.70	14.73					
Н	.090	.110	2.29	2.79					
	.020	.045	0.51	1.14					
J	.012	.025	0.30	0.64					
K	.139	.161	3.53	4.09	Ø				
L	.140	.190	3.56	4.83					
M	.045	.055	1.14	1.40					
N	.080	.115	2.03	2.92					

### MBR1620CT thru MBR1660CT

Figure 1 Typical Forward Characteristics



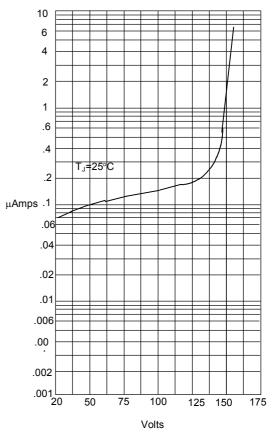
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



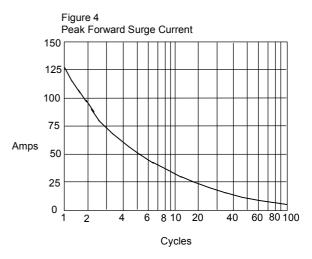
Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



Figure 2
Typical Reverse Characteristics



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



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