

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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MBR1620FCT THRU MBR16100FCT

16 Amp Schottky Rectifier 20-100 Volts

Features

- High Surge Capability
- Low Forward Voltage Drop
- Marking: type number
- Low Power Loss, High Efficiency
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

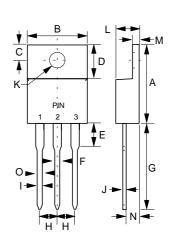
- Operating Temperature: -50°C to +125°C
 Storage Temperature: -50°C to +125°C
- Maximum Thermal Resistance: R_{θJC} = 2.0°C/W

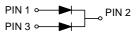
MCC Part Number	Maximum Recurrent Peak	Maximum RMS	Maximum DC Blocking Voltage
	Reverse Voltage	Voltage	
MBR1620FCT	20V	14V	20V
MBR1630FCT	30V	21V	30V
MBR1640FCT	40V	28V	40V
MBR1650FCT	50V	35V	50V
MBR1660FCT	60V	42V	60V
MBR1680FCT	80V	56V	80V
MBR16100FCT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	I _{F(AV)}	16 A	T _C = 90°C
Peak Forward Surge	I _{FSM}	150A	8.3ms, half sine
Current			
Maximum Instantaneous			
Forward Voltage			
MBR1620FCT-1640FCT		.55V	
MBR1650FCT-1660FCT	V_{F}	.75V	$I_{FM} = 8.0A$ per leg
MBR1680FCT16100FCT		.85V	
Maximum DC Reverse			
Current At Rated DC	I_R	0.5mA	T _C = 25°C
Blocking Voltage		100mA	T _C = 100°C

ITO-220AB





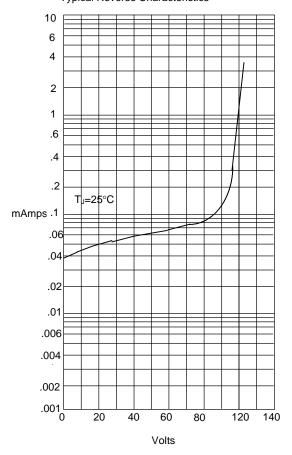
NCHES MM NOTE	ΓE
A .583 .606 14.80 15.40 B406 10.30 C .100 .112 2.55 2.85 D .248 .272 6.30 6.90	E
B406 10.30 C .100 .112 2.55 2.85 D .248 .272 6.30 6.90	
C .100 .112 2.55 2.85 D .248 .272 6.30 6.90	
D .248 .272 6.30 6.90	_
F 404 440	
E161 4.10	
F071 1.80	
G .512 .543 13.00 13.80	
H .100 2.55	
l035 0.90	
J032 0.80	
K .118 .134 3.00 3.40 Ø	
L189 4.80	
M130 3.30	
N .098 .114 2.50 2.90	
O055 1.40	

MBR1620FCT thru MBR16100FCT

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Figure 1 Typical Reverse Characteristics



INSTANTANEOUS FORWARD CURRENT AMPERES 20. 30. 40V 50. 60V 80. 100V

CHARACTERISTIC

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Figure 4

Peak Forward Surge Current

Fig. 2-TYPICAL INSTNATANEOUS FORWARD

INSTANTANEOUS FORWARD CHARACTERISTIC

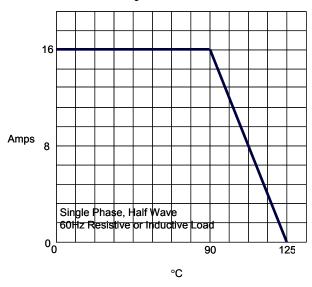
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PULSE WIDTH = 200fgs

1.0

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

Figure 3 Forward Derating Curve



150 125 100 75 Amps 50 25 0 2 6 8 10 20 60 80 100 Cycles

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

Average Forward Rectified Current - Amperes versus Ambient Temperature -°C



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