



Micro Commercial Components  
 21201 Itasca Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# MBR3520 THRU MBR35100

## Features

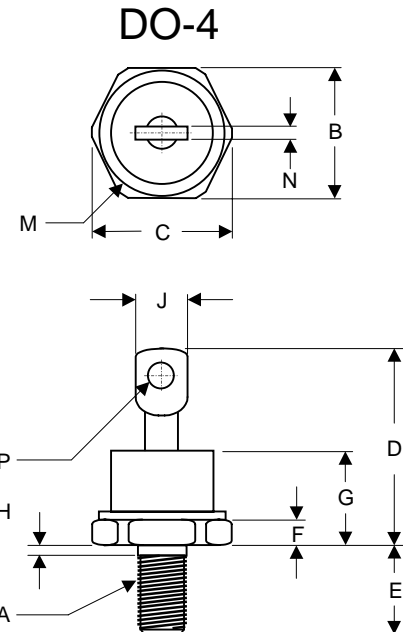
- Metal of siliconrectifier, majonty carrier conducton
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability

## 35 Amp Schottky Barrier Rectifier 20 to 100 Volts

## Maximum Ratings

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

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR3520	20V	14V	20V
MBR3530	30V	21V	30V
MBR3535	35V	24.5V	35V
MBR3540	40V	28V	40V
MBR3545	45V	31.5V	45V
MBR3560	60V	42V	60V
MBR3580	80V	56V	80V
MBR35100	100V	70V	100V



## Electrical Characteristics @ 25°C Unless Otherwise Specified

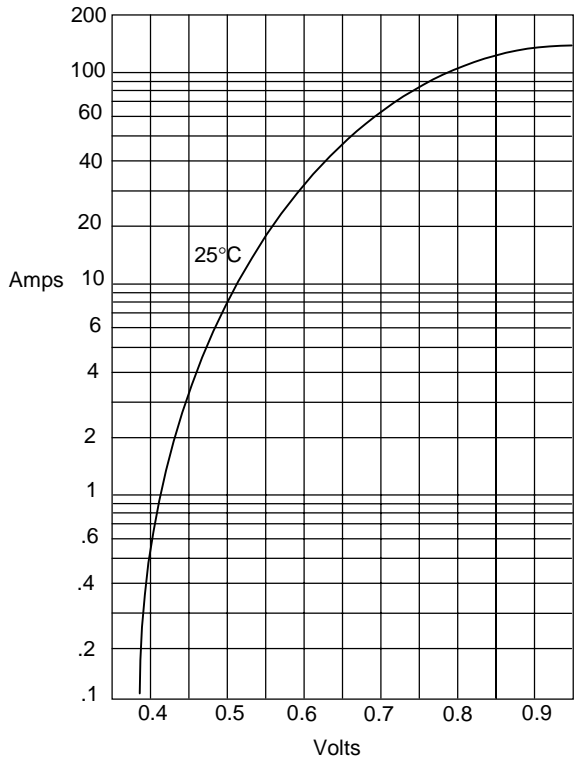
Average Forward Current	$I_{F(AV)}$	35 A	$T_A = 110^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.68 V .75 V .84 V	$I_{FM} = 35.0A;$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	1.5mA	$T_A = 25^\circ\text{C}$

DIM	INCH ES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	10-32 UNF3A Threads		Standard	Polarity	
B	.424	.437	10.77	11.10	
C	----	.505	----	12.82	
D	.600	.800	15.24	20.32	
E	.422	.453	10.72	11.50	
F	.075	.175	1.91	4.44	
G	----	.405	----	10.29	
H	.163	.189	4.15	4.80	
J	----	.310	----	7.87	
M	----	.350	----	8.89	∅
N	.020	.065	0.51	1.65	
P	.060	.100	1.53	2.54	∅

\*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

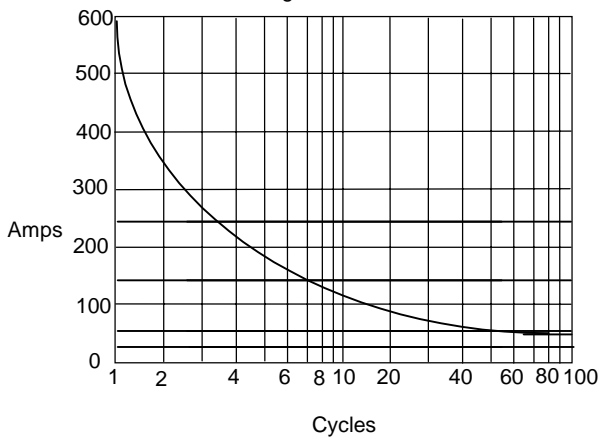
MBR3520 thru MBR35100

Figure 1  
Typical Forward Characteristics



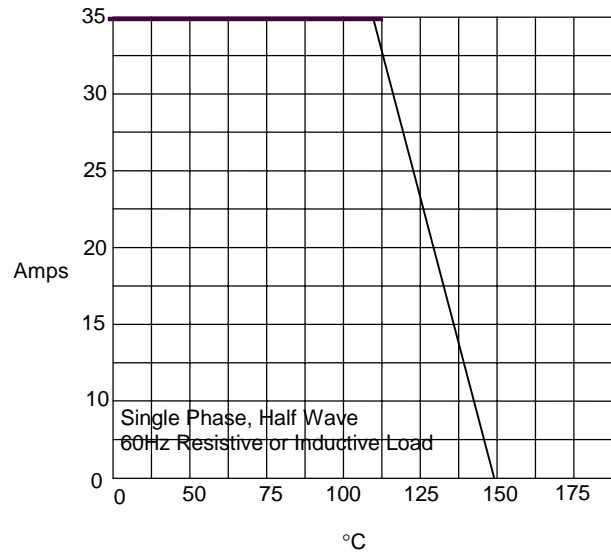
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 3  
Peak Forward Surge Current



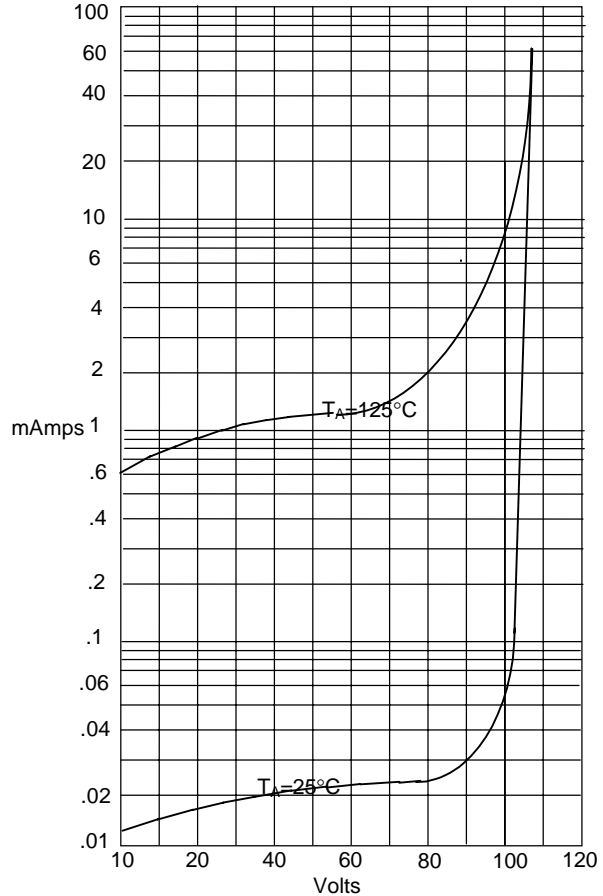
Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 2  
Forward Derating Curve



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

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts