

DIGITRON SEMICONDUCTORS

MBR3520-MBR35100

35 AMP SCHOTTKY BARRIER RECTIFIER

Operating and storage temperature range: -55 to +175°C

MAXIMUM RATINGS

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

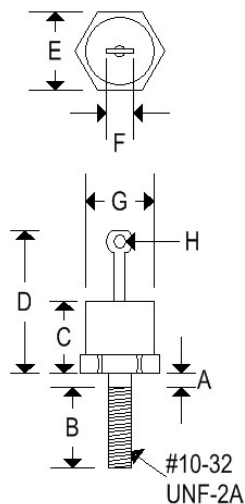
ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise specified

Parameter	Symbol	Value	Test Conditions
Average forward current	$I_{F(AV)}$	35A	$T_A = 110^\circ\text{C}$
Peak forward surge current	I_{FSM}	600A	8.3ms, half-sine
Maximum forward voltage drop MBR3520-3545 MBR3560 MBR3580-35100	V_F	.68V .75V .84V	$I_{FM} = 35\text{A}$ $T_A = 25^\circ\text{C}^*$
Maximum DC reverse current at rated DC blocking voltage	I_R	1.5mA	$T_A = 25^\circ\text{C}$

* Pulse test: pulse width 300µsec, duty cycle 1%

MECHANICAL CHARACTERISTICS

Case	DO-4(R)
Marking	Alpha-numeric
Normal polarity	Cathode is stud
Reverse polarity	Anode is stud (add "R" suffix)



	DO-4(R)			
	Inches		Millimeters	
	Min	Max	Min	Max
A	-	0.078	-	1.981
B	0.422	0.453	10.719	11.506
C	-	0.405	-	10.287
D	-	0.800	-	20.320
E	0.420	0.440	10.668	11.176
F	-	0.250	-	6.350
G	-	0.424	-	10.770
H	0.066	-	1.676	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

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Figure 1
Typical Forward Characteristics

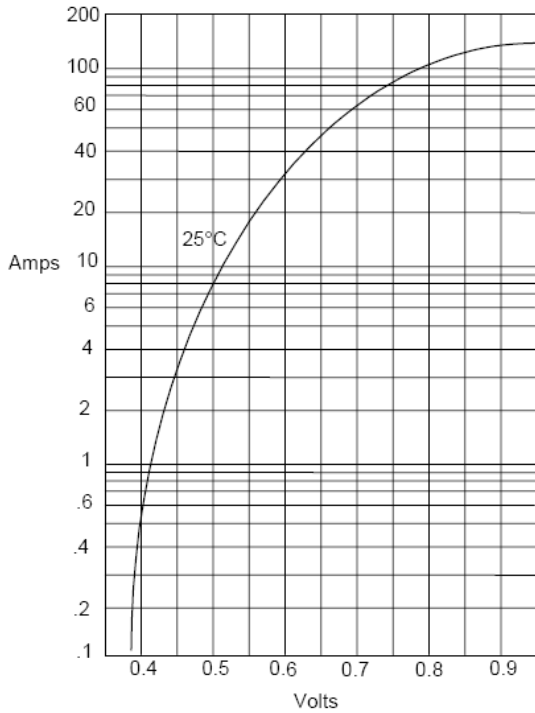


Figure 2
Forward Derating Curve

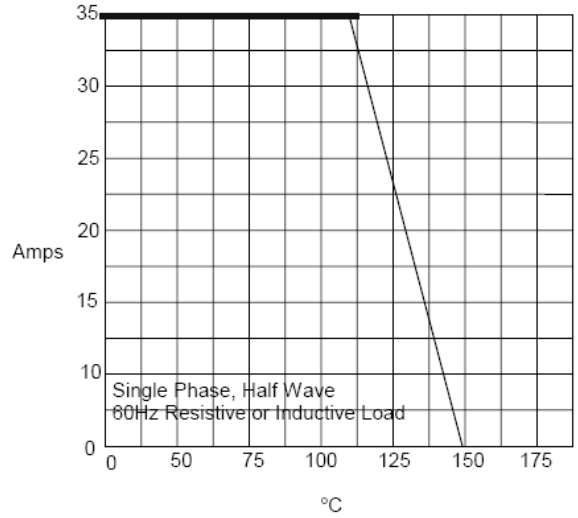


Figure 4
Typical Reverse Characteristics

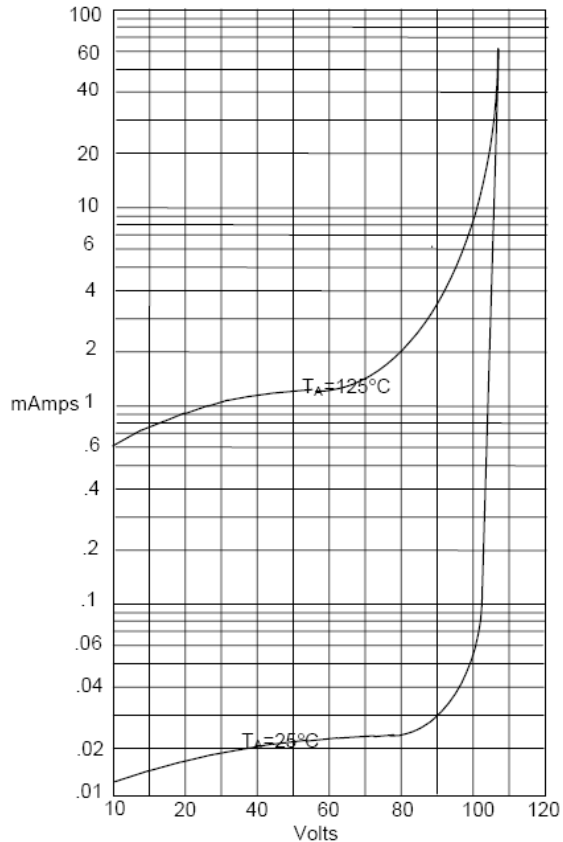


Figure 3
Peak Forward Surge Current

