

**SCHOTTKY DIODES STUDTYPE 35A**

**Features**

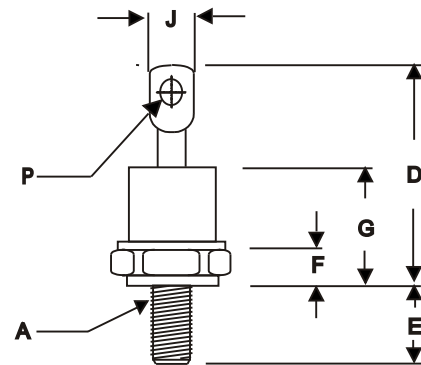
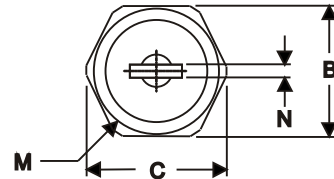
High Surge Capability  
Types up to 100V  $V_{RRM}$

**35Amp Rectifier  
20-100 Volts**

**Maximum Ratings**

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

**DO-4**



Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR3520( R )	20V	14V	20V
MBR3530( R )	30V	21V	30V
MBR3535( R )	35V	25V	35V
MBR3540( R )	40V	28V	40V
MBR3545( R )	45V	32V	45V
MBR3560( R )	60V	42V	60V
MBR3580( R )	80V	57V	80V
MBR35100( R )	100V	70V	100V

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

Average Forward Current	$I_{F(AV)}$	35A	$T_C = 110\text{ }^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	600A	8.3ms ,Half sine
Maximum Instantaneous Forward Voltage	$V_F$	0.68V 0.75V 0.84V	(MBR3530~MBR3545) (MBR3560) (MBR3580~MBR35100) $I_{FM} = 35\text{ A}; T_j = 25\text{ }^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage	$I_R$	1.5 mA 25 mA	$T_j = 25\text{ }^\circ\text{C}$ $T_j = 125\text{ }^\circ\text{C}$
Maximum thermal resistance, junction to case	$R_{\theta jc}$	1.5°C /W	
Mounting torque	Kgf-cm	11.0~13.4	Not lubricated threads

Notes:

- Standard Polarity: Stud is Cathode
- Reverse Polarity: Stud is Anode

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	10-32	UNF3A	Threads	Standard	Polarity
B	.424	.437	10.77	11.10	
C	----	.505	----	12.82	
D	.600	.820	15.24	20.82	
E	.422	.453	10.72	11.50	
F	.075	.175	1.91	4.44	
G	----	.405	----	10.29	
J	----	.310	----	7.87	
M	----	.413	----	10.49	∅
N	.020	.065	0.51	1.65	
P	.060	.100	1.53	2.54	∅

NOTE :

(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

Figure .1- Typical Forward Characteristics

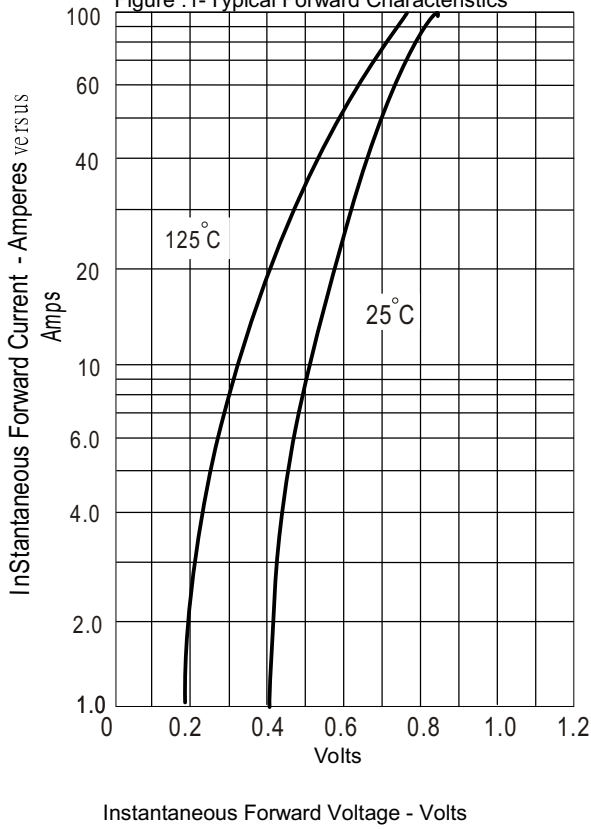


Figure .2- Forward Derating Curve

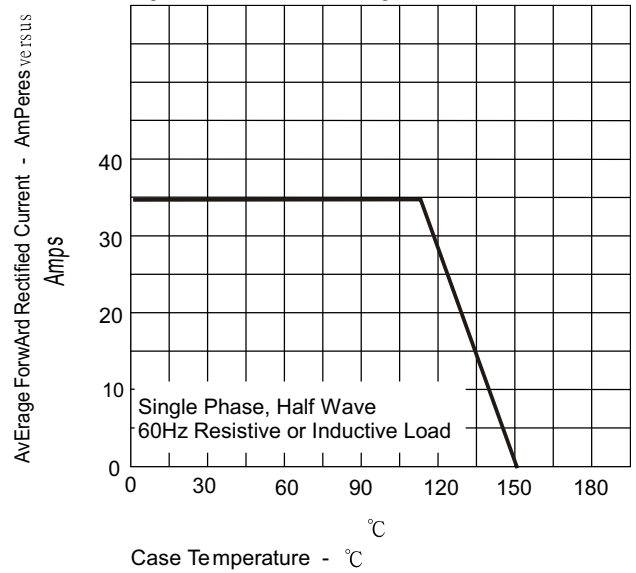


Figure .4- Typical Reverse Characteristics

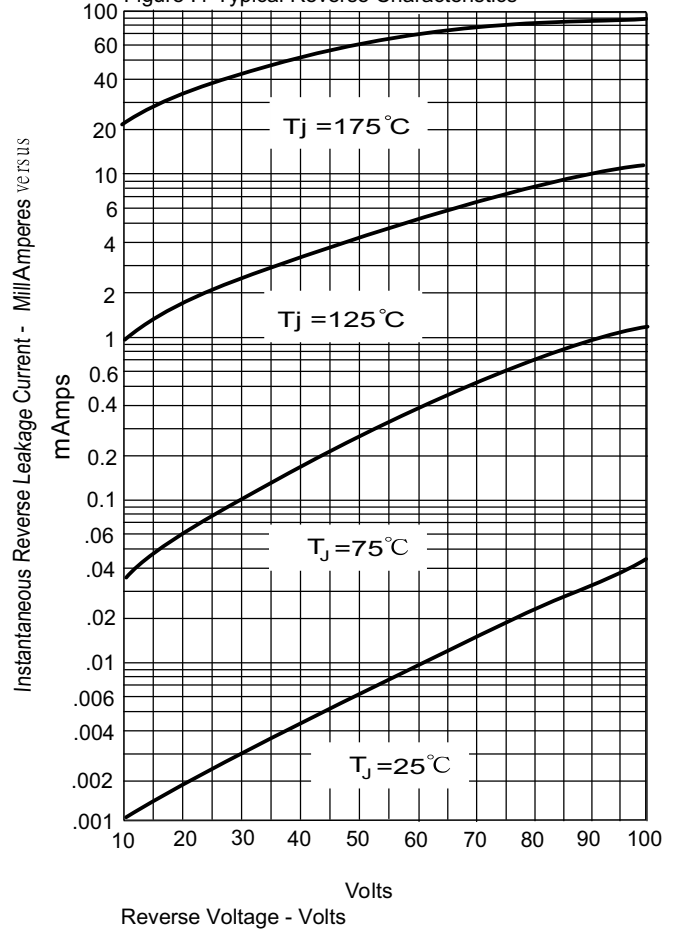


Figure .3- Peak Forward Surge Current

