



# MBR8020(R) THRU MBR80100(R)

## SCHOTTKY DIODES STUD TYPE 80 A

### Features

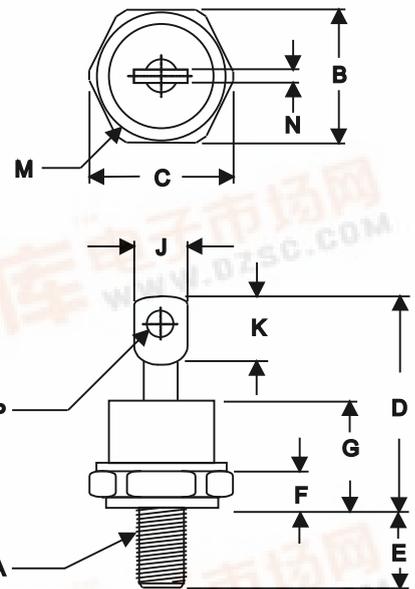
- High Surge Capability
- Types up to 100V<sub>R<sub>RM</sub></sub>

**80Amp Rectifier  
20-100 Volts**

### Maximum Ratings

- Operating Temperature: -65 °C to +150 °C
- Storage Temperature: -65 °C to +175 °C

### DO-5



Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR8020(R)	20V	14V	20V
MBR8030(R)	30V	21V	30V
MBR8035(R)	35V	25V	35V
MBR8040(R)	40V	28V	40V
MBR8045(R)	45V	32V	45V
MBR8060(R)	60V	42V	60V
MBR8080(R)	80V	50V	80V
MBR80100(R)	100V	70V	100V

Notes:

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

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

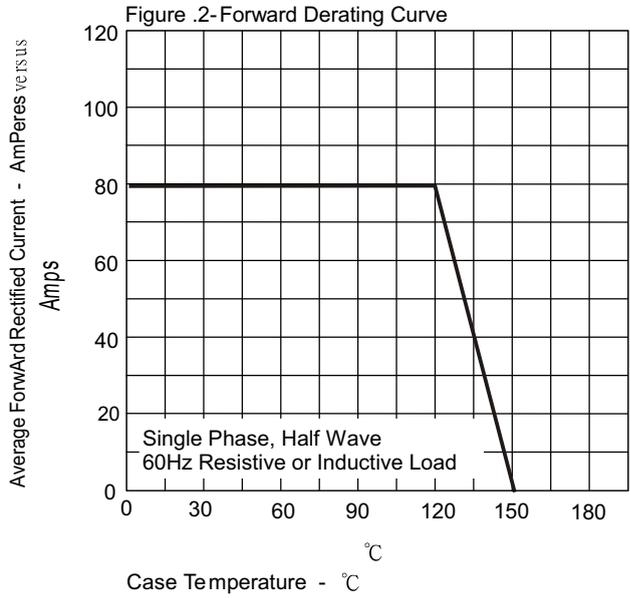
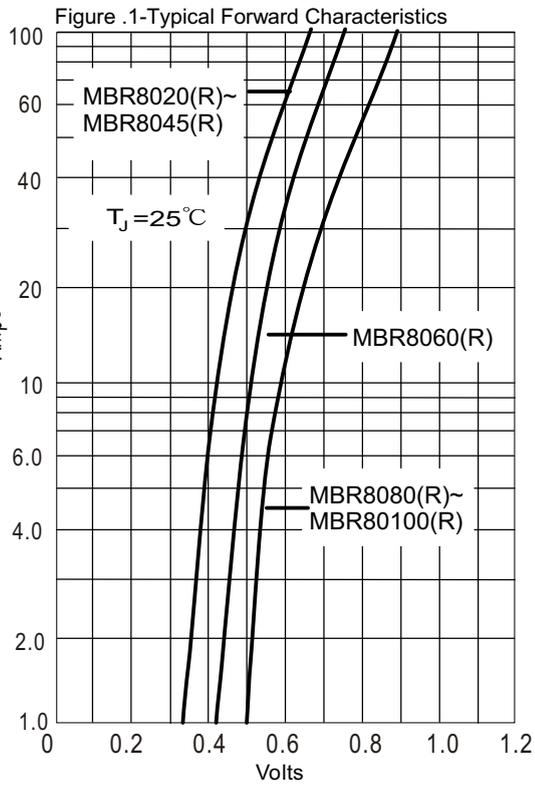
Average Forward Current	I <sub>F(AV)</sub>	80A	T <sub>c</sub> = 120 °C
Peak Forward Surge Current	I <sub>FSM</sub>	1000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.65V 0.75V 0.84V	(MBR8020~MBR8045) (MBR8060) (MBR8080~MBR80100) I <sub>FM</sub> = 80 A; T <sub>J</sub> = 25 °C
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0 mA 250 mA	T <sub>J</sub> = 25 °C T <sub>J</sub> = 125 °C
Maximum Thermal Resistance, Junction To Case	R <sub>QjC</sub>	1.0°C/W	
Mounting torque	Kgf-cm	23~34	Not lubricated threads

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	1/4-28 Threads		Standard	Polarity	
B	.669	.687	17.19	17.44	
C	----	.794	----	20.16	
D	----	1.020	----	25.91	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	----	.460	----	11.68	
H	----	----	----	----	
J	----	.375	----	9.52	
K	.156	----	3.96	----	
M	----	.667	----	16.94	
N	----	.080	----	2.03	
P	.140	.175	3.56	4.45	

NOTE : Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%



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Instantaneous Forward Voltage - Volts

