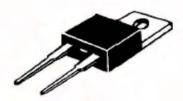


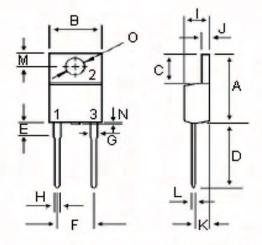
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.



Features:

- Low forward voltage.
- · Low switching noise.
- · High current capacity.
- · Guarantee reverse avalanche.
- Guard-ring for stress protection.
- Low power loss and high efficiency.
- 150°C operating junction temperature.
- Low stored charge majority carrier conduction.
- Plastic material used carries Underwriters Laboratory Flammability classification 94V-O.

8 Amperes 40-45 Volts TO-220A



Dimensions: Millimetres

DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	15.32	
В	9.78	10.42	
C	6.02	6.52	
D	13.06	14.62	
E	3.57	4.07	
F	4.84	5.32	
G	1.12	1.36	
Н	0.72	0.96	
1	4.22	4.98	
J	1.14	1.38	
K	2.20	2.98	
L	0.33	0.55	
M	2.48	2.98	
N		1.00	
0	3.70	3.90	





Maximum Ratings

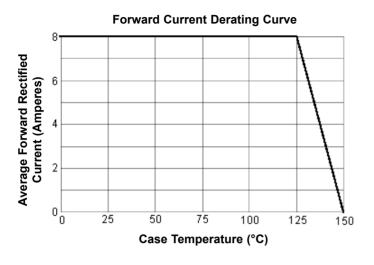
Characteristic	Symbol	MBR840	MBR845	Units	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	45	v	
RMS Reverse Voltage	V _{R (RMS)}	28	32		
Average Rectifier Forward Current	I _{F (AV)}	8		A	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}				
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	150			
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150		°C	

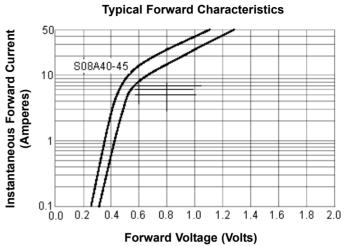
Electrical Characteristics

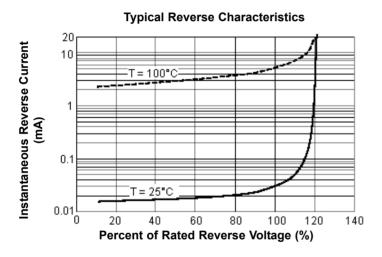
Characteristic	Symbol	MBR840	MBR845	Units
Maximum Instantaneous Forward Voltage (I _F = 8.0 Amperes T _C = 25°C) (I _F = 8.0 Amperes T _C = 125°C)	V _F	V _F 0.55 0.48		V
Typical Thermal Resistance Junction to Case	R _{θ j-c}	3.8		°C/W
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	0.5 20		mA

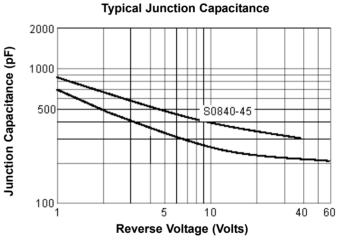


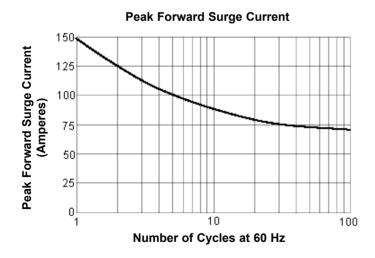
















Part Number Table

Description	Part Number		
Schottky Barrier Rectifiers	MBR840		
Schottky Barrier Rectifiers	MBR845		



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