



Micro Commercial Components
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MBR4020WT THRU MBR4060WT

40 Amp Schottky Barrier Rectifier 20 to 60 Volts

Features

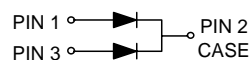
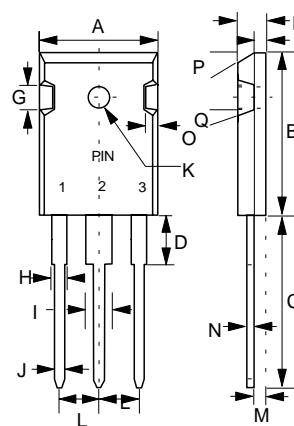
- High Surge Capacity
- Low Power Loss, High Efficiency
- High Current Capability, Low V_F
- Metal of silicon Rectifier, majority Carrier Conduction
- Guard Ring For Transient Protection
- Plastic Package Has UL Flammability Classification 94V-0

Maximum Ratings

- Operating Temperature: -55°C to $+150^{\circ}\text{C}$
- Storage Temperature: -55°C to $+175^{\circ}\text{C}$

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR4020WT	20V	14V	20V
MBR4030WT	30V	21V	30V
MBR4035WT	35V	24.5V	35V
MBR4040WT	40V	28V	40V
MBR4045WT	45V	31.5V	45V
MBR4060WT	60V	42V	60V

TO-247



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	40.0A	$T_C=125^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	400A	8.3ms half sine
Maximum Instantaneous Forward Voltage MBR4020WT-4045WT MBR4060WT	V_F	.70V .80V	$I_{FM}=20.0A$ $T_C=25^{\circ}\text{C}$
Maximum Instantaneous Forward Voltage MBR4020WT-4045WT MBR4060WT	V_F	.80V .90V	$I_{FM}=40.0A$ $T_C=25^{\circ}\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0mA 100mA	$T_C=25^{\circ}\text{C}$ $T_C=125^{\circ}\text{C}$
Typical Junction Capacitance	C_j	700pF	Measured at 1.0MHz, $V_R=4.0V$

Pulse test: Pulse width 300 usec, duty cycle 2%.

DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.620	.640	15.75	16.25	
B	.837	.856	21.25	21.75	
C	.772	.791	19.60	20.10	
D	.149	.172	3.78	4.38	
E	.074	.082	1.88	2.08	
F	.192	.202	4.87	5.13	
G	.173 TYP		4.4 TYP		
H	.075	.085	1.90	2.16	
I	.115	.127	2.93	3.22	
J	.044	.048	1.12	1.22	
K	.114	.126	2.90	3.20	∅
L	.205	.224	5.20	5.70	
M	.083	.095	2.10	2.40	
N	.020	.030	0.51	0.76	
O	.076	.086	1.93	2.18	
P			20° TYP		
Q			10° TYP		

MBR4020WT thru MBR4060WT

