Micro Commercial Components
21201 Itasca Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MBR6045WT

60 Amp Schottky Barrier Rectifier 45 Volts

Features

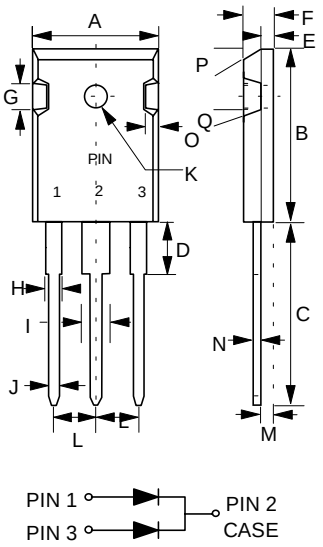
- High Surge Capacity
- Low Power Loss, High Efficiency
- High Current Capability, Low V_F
- Metal of silicon Rectifier, majority Carrier Conduction
- Guard Ring For Transient Protection
- Plastic Package Has UL Flammability Classification 94V-0

Maximum Ratings

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

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR6045PT	45V	31.5V	45V

TO-247



Electrical Characteristics @25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	60.0A	T_C=125°C
Peak Forward Surge Current	I_{FSM}	500A	8.3ms half sine
Maximum Instantaneous Forward Voltage MBR6045PT	V_F	.62V .75V	I_{FM} =30.0A I_{FM} =60.0A T_J=25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0mA 50mA	T_J=25°C T_J=100°C
Typical Junction Capacitance	C_j	700pF	Measured at 1.0MHz, V_R=4.0V

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

DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
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	Ø
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				

RATING AND CHARACTERISTIC CURVES
MBR6045WT

FIG.1 - FORWARD CURRENT DERATING CURVE

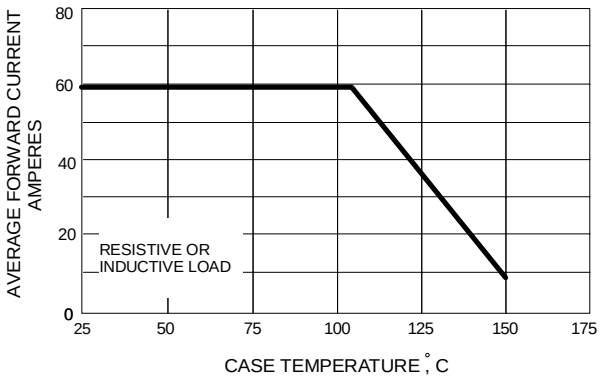


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

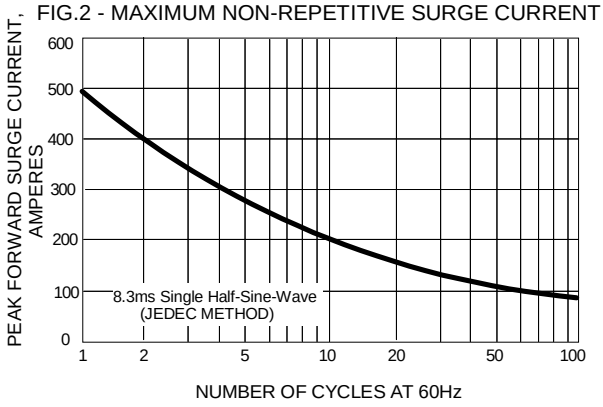


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

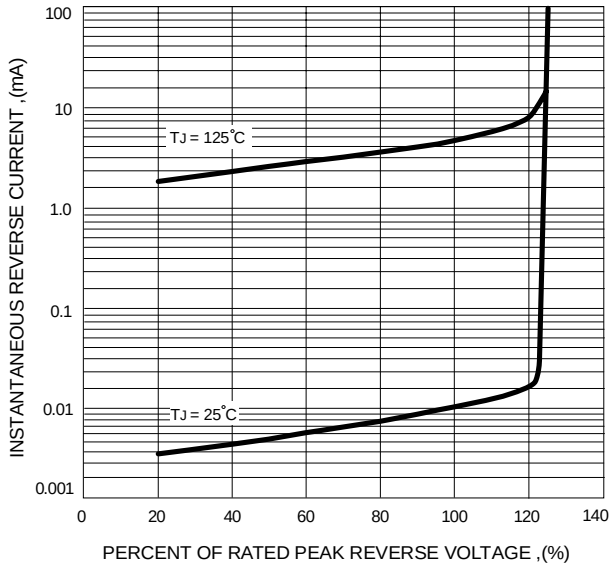


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

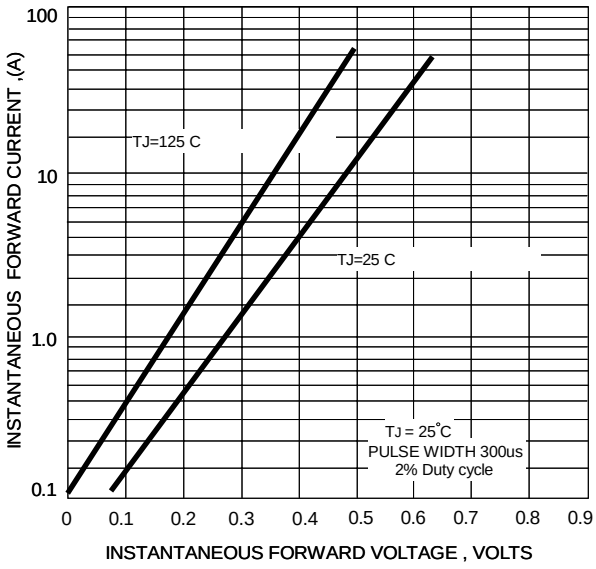


FIG.5 - TYPICAL JUNCTION CAPACITANCE