

MBR60L45PTTHRUMBR60L100P

60.0 AMP SCHOTTKY BARRIER RECTIFIES



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

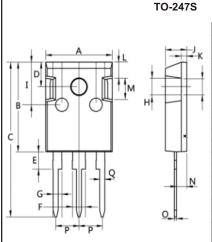
* Case: Molded plastic

- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guranteed

* Polarity: As Marked * Mounting position: Any * Weight: 5.60 grams

VOLTAGE RANGE 45 to 100 Volts CURRENT

60.0 Amperes



Dim.	Min.	Max.		
Α	15.0	16.0		
В	19.5	20.5		
С	33.5	35.5		
D	5.0	6.0		
E	3.5	4.5		
F	2.5	3.5		
G	1.75	2.5		
н	3.0	4.0		
ı	9.0	11.0		
J	4.9	5.1		
K	1.0	1.3		
L	3.75	4.25		
М	4.75	5.25		
N	1.8	2.2		
0	0.45	0.6		
Р	Typ 5.08			
Q	1.2	1.3		
All D	Dimensions in milli	meter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		MBR60L45CT	MBR60L60CT	MBR60L100CT	UNITS
Maximum Recurrent Peak Reverse Voltage		45	60	100	V
Maximum RMS Voltage		45	60	100	V
Maximum DC Blocking Voltage		32	42	70	V
Maximum Average Forward Rectified (Current				
at Tc=125°C		60			Α
Peak Forward Surge Current, 8.3 ms s	ingle half sine-wave				
superimposed on rated load (JEDEC method)		500			Α
Maximum Instantaneous Forward Voltage at 30A		0.5	0.6	0.72	V
Maximum DC Reverse Current	Ta=25°C	0.2		0.1	mA
at Rated DC Blocking Voltage	Ta=100°C	20		10	mA
Typical Junction Capacitance (Note1)		650			pF
Typical Thermal Resistance RθJC (Note 2)		1.4			°C/W
Operating Temperature Range T _J		-65 —+150			°C
Storage Temperature Range Tsrc		-65—+150			°C

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (MBR60L45PT THRU MBR60L100PT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

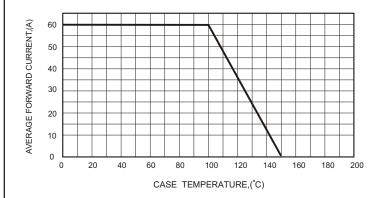
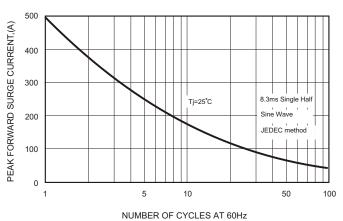


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



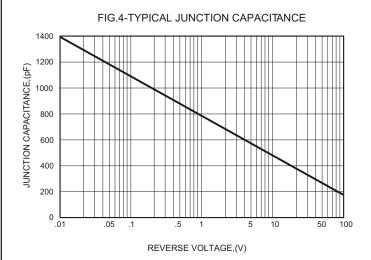


FIG.2-TYPICAL FORWARD

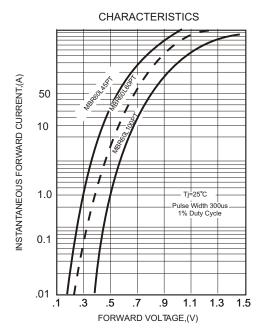


FIG.5 - TYPICAL REVERSE

