



### 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 guaranteed
- \* Polarity: As Marked
- \* Mounting position: Any
- \* Weight: 5.60 grams

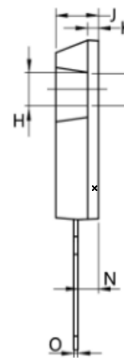
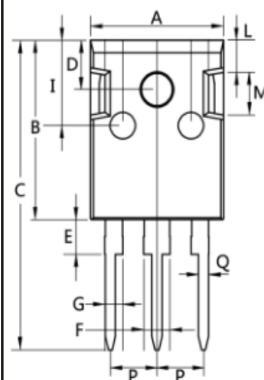
### VOLTAGE RANGE

45 to 100 Volts

### CURRENT

60.0 Amperes

TO-247S



Dim.	Min.	Max.
A	15.0	16.0
B	19.5	20.5
C	33.5	35.5
D	5.0	6.0
E	3.5	4.5
F	2.5	3.5
G	1.75	2.5
H	3.0	4.0
I	9.0	11.0
J	4.9	5.1
K	1.0	1.3
L	3.75	4.25
M	4.75	5.25
N	1.8	2.2
O	0.45	0.6
P	Typ 5.08	
Q	1.2	1.3

All Dimensions in millimeter

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise 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			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	500			A
Maximum Instantaneous Forward Voltage at 30A	0.5	0.6	0.72	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 0.2	Ta=100°C 20	0.1 10	mA
Typical Junction Capacitance (Note1)	650			pF
Typical Thermal Resistance RθJC (Note 2)	1.4			°C/W
Operating Temperature Range Tj	-65 — +150			°C
Storage Temperature Range Tstg	-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

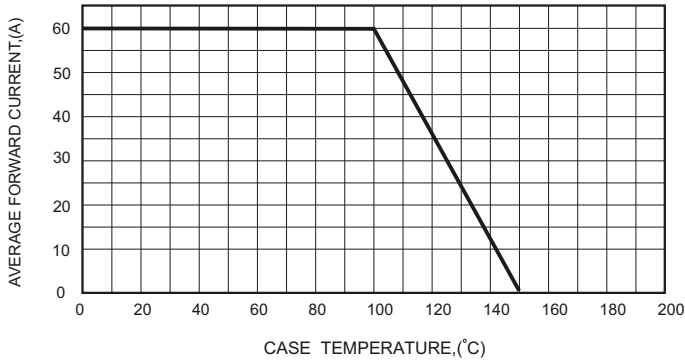


FIG.2-TYPICAL FORWARD CHARACTERISTICS

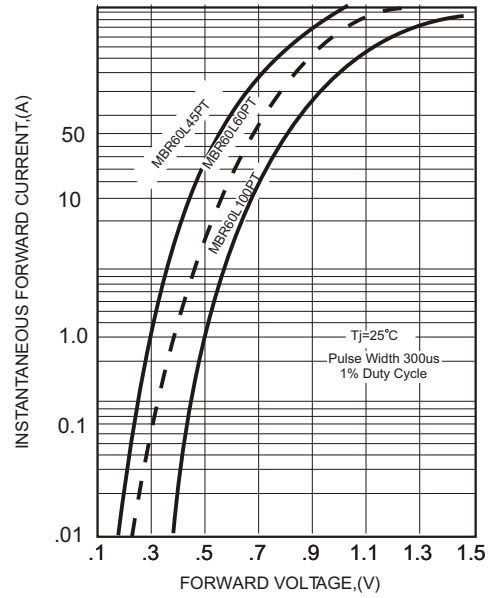


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

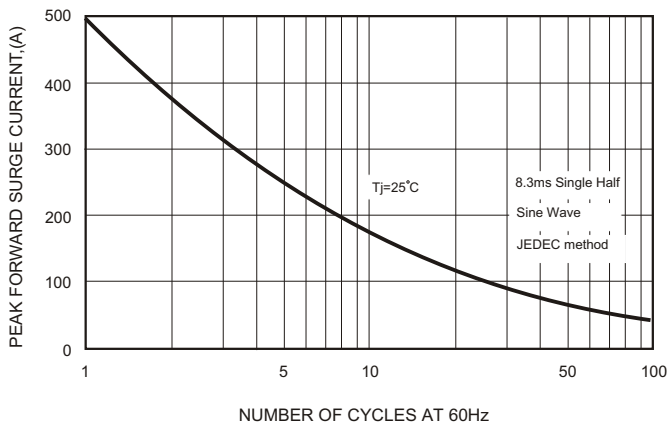


FIG.4-TYPICAL JUNCTION CAPACITANCE

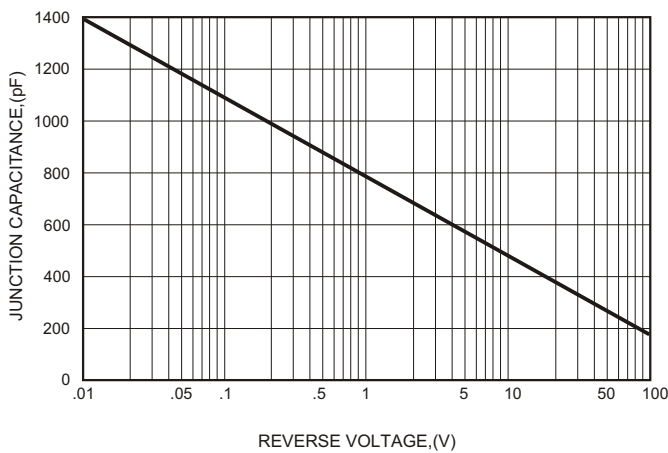
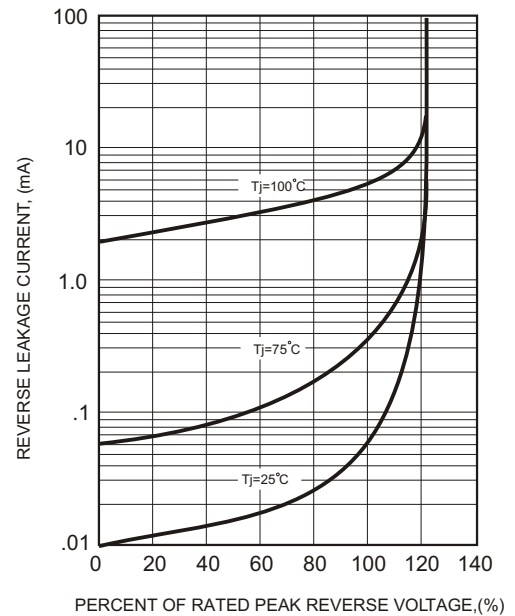


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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