MBR1060LFCT

LOW VF SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 60 Volts
Forward Current - 10.0Amperes

VOLTAGE RANGE
60 Volts
CURRENT
10.0 Amperes

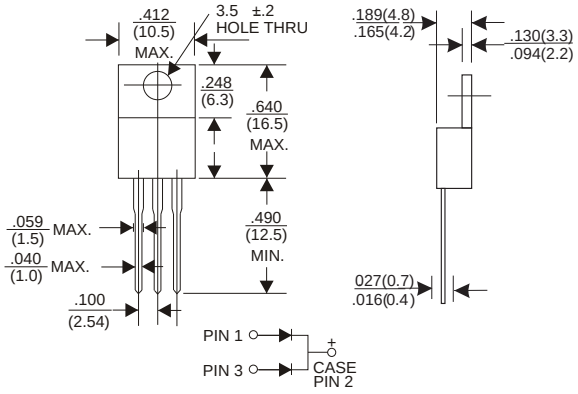
FEATURES

- Low Forward Voltage.
- Low Switching noise.
- High Current Capacity
- Guard-Ring for Stress Protection.
- Low Power Loss & High efficiency.
- Lead Free Finish/RoHS Compliant

MECHANICAL DATA

- Case: Molded Plastic
- Polarity: Symbols molded or marked on body
- Mounting position : Any
- Weight: 1.81 grams

ITO-220AB



Dimensions in inches and (millimeters)

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	MBR1060LFCT	UNITS
Maximum Recurrent Peak Reverse Voltage	60	V
Maximum RMS Voltage	42	V
Maximum DC Blocking Voltage	60	V
Maximum Average Forward Rectified Current See Fig. 1	10.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150	A
Maximum Instantaneous Forward Voltage at10.0A	0.55	V
Maximum DC Reverse Current Ta=25°C	500	uA
at Rated DC Blocking Voltage Ta=100°C	100	mA
Typical Junction Capacitance (Note1)	250	pF
Typical Thermal Resistance RθJA (Note 2)	20	°C/W
Operating Temperature Range T_J	-65 — +150	°C
Storage Temperature Range T_{STG}	-65 — +150	°C
Voltage Rate of Change (Rated V_R)	10,000	V/μs

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATING AND CHARACTERISTIC CURVES (MBR1060LFCT)

FIG.1-FORWARD CURRENT DERATING CURVE

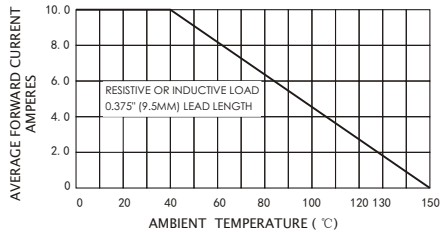


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

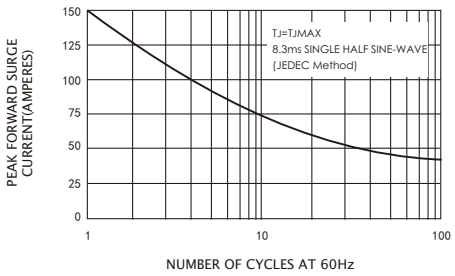


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

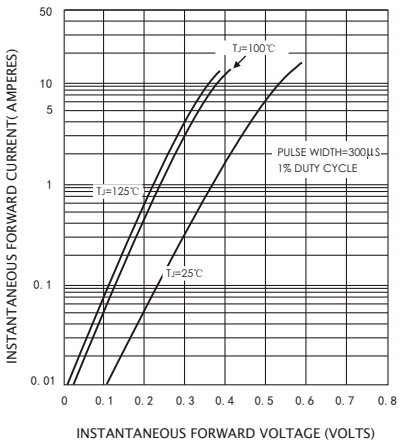


FIG.4-TYPICAL REVERSE CHARACTERISTICS

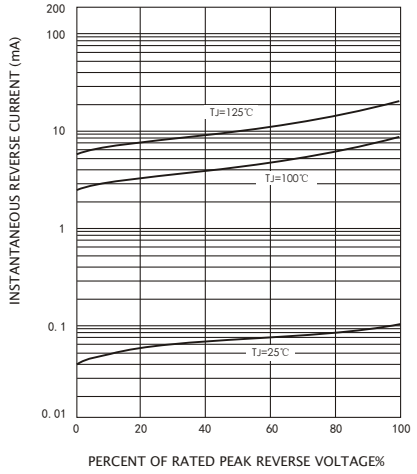


FIG.5-TYPICAL JUNCTION CAPACITANCE