MBR60100PT THRU MBR60200PT
60A Schottky Rectifiers

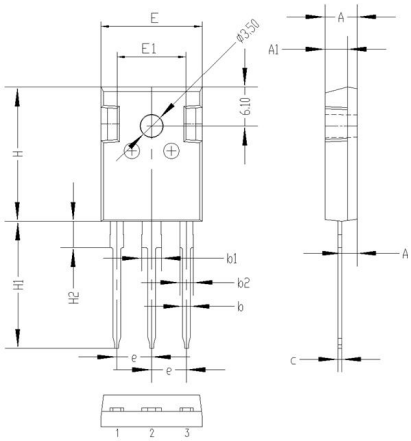
FEATURES

- High ESD capacity.
- High surge capacity.
- High junction temperature capability.
- High frequency operation.
- Low leakage current.
- High temperature soldering guaranteed: 260°C/10 second.

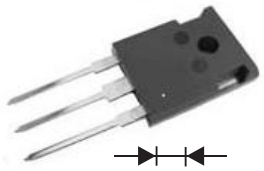
MECHANICAL DATA

- Case: TO-247AD Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-750, method 2026
- Mounting position: Any
- Weight: 6.40 grams

TO-247AD



Symbol	Dimensions(millimeters)	
	Min.	Max.
A	4.80	5.20
A1	3.30	3.70
A2	2.10	2.50
b	1.00	1.40
b1	2.90	3.30
b2	1.90	2.30
c	0.40	0.80
e	5.25	5.65
E	15.6	16.0
E1	10.6	11.00
H	20.8	21.2
H1	19.4	20.4
H2	3.90	4.30
G	5.90	6.30
ΦP	3.30	3.70



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbols	MBR60100PT	MBR60150PT	MBR60200PT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	100	150	200	Volts
Maximum Average Forward Rectified Current	IF	60			Amp
Peak Forward surge current 8.3ms single half-sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	400			Amp
Maximum Forward Voltage at 30A at Tj= 25°C (Per Diode)	V_F	0.80	0.90		Volts
Maximum Reverse Current at Rated DC Blocking Voltage at Tj= 25°C	I_R	50			uAmp
Maximum Reverse Current at Rated DC Blocking Voltage at Tj= 125°C	I_R	20			mAmp
Typical Junction Capacitance (Note 1)	C_J	250			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2			°C/W
Operating Junction Temperature Range	T_J	-55 ~ +150			°C
Storage Temperature Range	T_{STG}	-55 ~ +150			°C

NOTE :
1.Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2.Junction to case.

RATINGS AND CHARACTERISTIC CURVES

Fig.1- FORWARD CURRENT DERATING CURVE

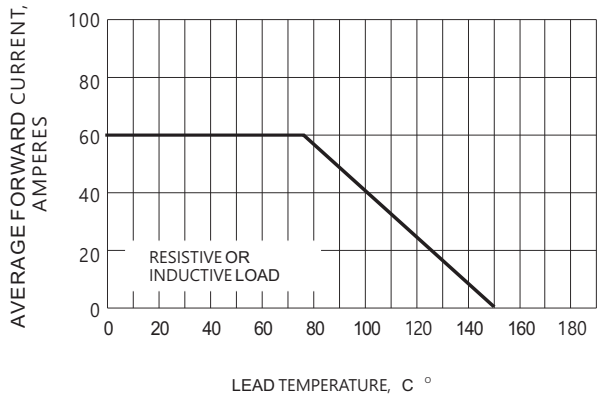


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

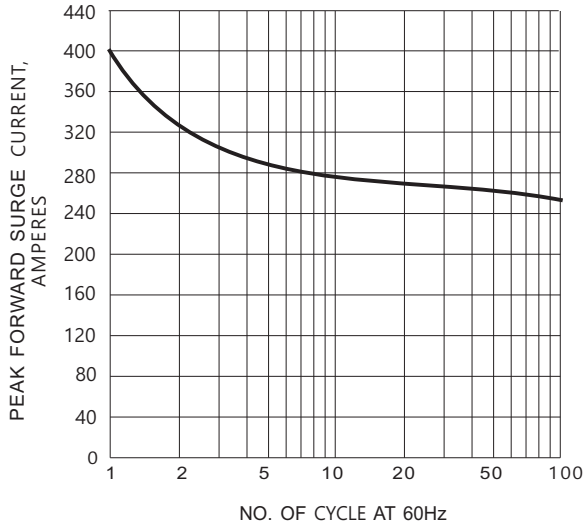


Fig.3- TYPICAL REVERSE CHARACTERISTIC

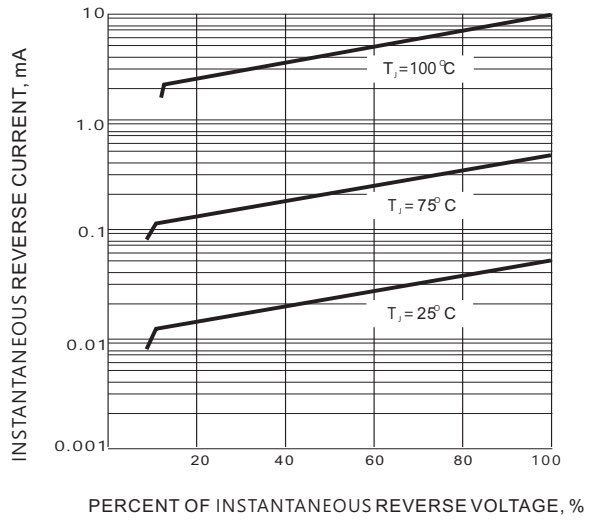
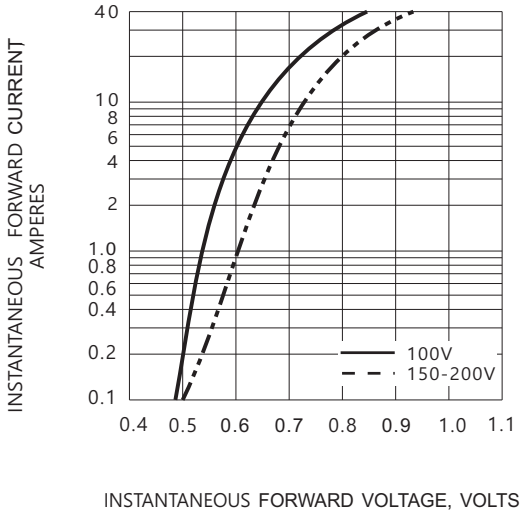


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



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