MBR6040PT SERIES

SCHOTTKY BARRIER RECTIFIERS

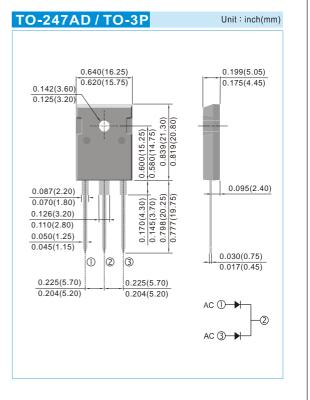
VOLTAGE 40 to 200 Volt CURRENT

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
 Flame Retardant Epoxy Molding Compound
- Low power loss, high efficiency
- High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications
- Lead free in compliance with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: TO-247AD / TO-3P molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Weight: 0.2245 ounces, 6.3673 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

60 Ampere

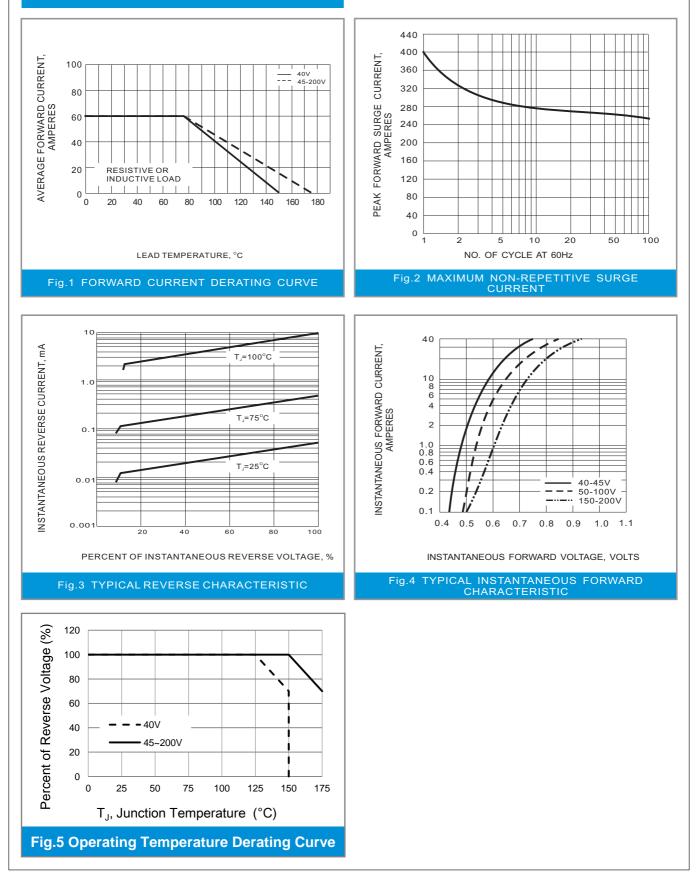
PARAMETER	SYMBOL	MBR6040PT	MBR6045PT	MBR6050PT	MBR6060PT	MBR6080PT	MBR6090PT	MBR60100PT	MBR60150PT	MBR60200PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{rms}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current	I _{F(AV)}	60							A		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	400							A		
Maximum Forward Voltage at 30A per leg	V _F	0.7 0.79			0.8			0.9		V	
Maximum DC Reverse Current at T _j =25°C Rated DC Blocking Voltage T _j =100°C	I _R	0.1 20 0.05 20							mA		
Typical Thermal Resistance	$R_{_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	1.5							°C / W		
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to + 150 -65 to +175							°C		

Note : Both Bonding and Chip structure are available.



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RATING AND CHARACTERISTIC CURVES





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MBR6040PT	SER	IES				
Part No_packing code MBR6040PT_T0_00001 MBR6040PT_T0_10001	e_Versi	on				
For example : RB500V-40_R2_0000 Part No.		rial number rsion code means HF cking size code means 13 cking type means T/R	п			
Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	x			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
EOPMING	E	PANASERT T/B CATHODE DOWN	n			

(PBCD)

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FORMING

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MBR6040PT SERIES

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