# **MBR3040PT SERIES**

40 to 200 Volt

CURRENT

30 Ampere

### SCHOTTKY BARRIER RECTIFIERS

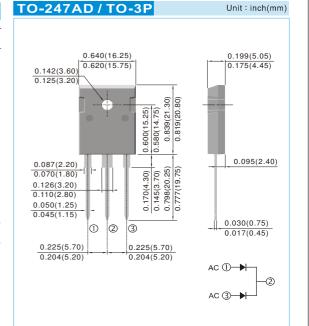
VOLTAGE

#### FEATURES

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

#### **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%

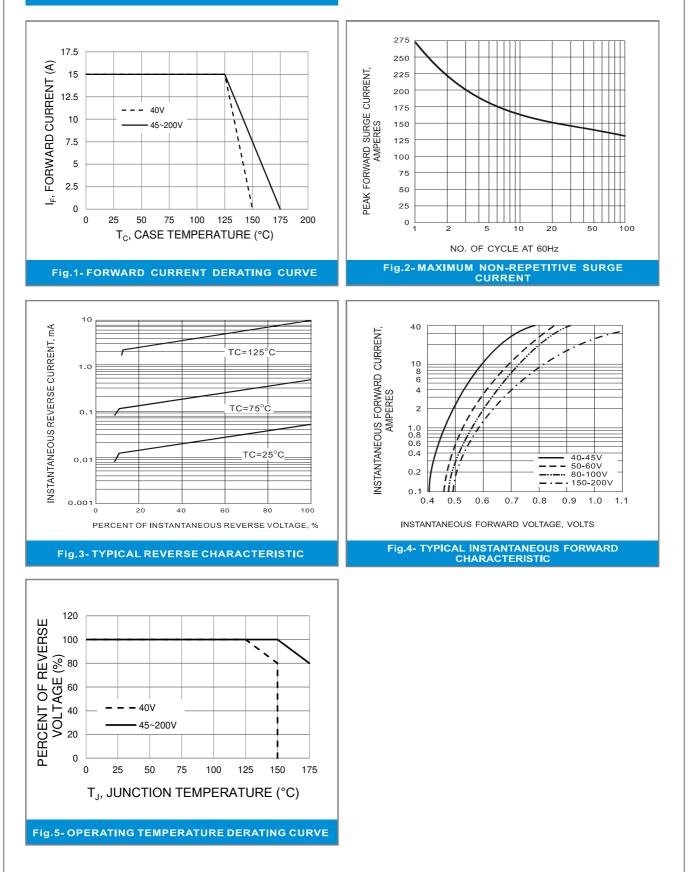
PARAMETER	SYMBOL	MBR3040PT	MBR3045PT	MBR3050PT	MBR3060PT	MBR3080PT	MBR3090PT	MBR30100PT	MBR30150PT	MBR30200PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	۷
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	۷
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	30								A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	275								A	
Maximum Forward Voltage at 15A per leg	V <sub>F</sub>	0.7 0.75 0.8 0.9					.9	۷			
Maximum DC Reverse Current at T <sub>j</sub> =25 °C Rated DC Blocking Voltage T <sub>j</sub> =125°C	I <sub>R</sub>	0.1 20 0.05 20							mA		
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	1.4							°C / W		
Operating Junction and Storage Temperature Range	Tj,Tstg	-50 to + 150 -65 to +175							°C		

Note : Both Bonding and Chip structure are available.



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### RATING AND CHARACTERISTIC CURVES







### Part No\_packing code\_Version

**MBR3040PT SERIES** 

MBR3004PT\_T0\_00001 MBR3004PT\_T0\_10001

### For example :

RB500V-40\_R2\_00001

Part No.

- Serial number

Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					



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