



SCHOTTKY BARRIER RECTIFIERS

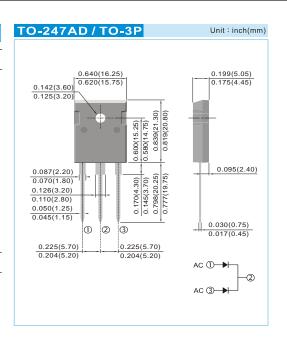
VOLTAGE 40 to 200 Volt CURRENT 40 Ampere

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 directive



- Case: TO-247AD/TO-3P molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Weight: 0.224 ounces, 6.367 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	MBR4040PT	MBR4045PT	MBR4050PT	MBR4060PT	MBR4080PT	MBR4090PT	MBR40100PT	MBR40150PT	MBR40200PT	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)}	40								А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	350								А	
Maximum Forward Voltage at 20A per leg	V _F	0.7 0.79 0.8 0.9						.9	V		
Maximum DC Reverse Current at T_j =25°C Rated DC Blocking Voltage T_j =125°C	I _R	0.1 20 0.05 20							mA		
Typical Thermal Resistance	R _{eJC}	1.2							°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

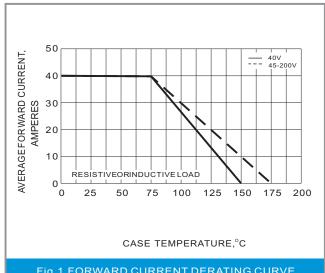


Fig.1 FORWARD CURRENT DERATING CURVE

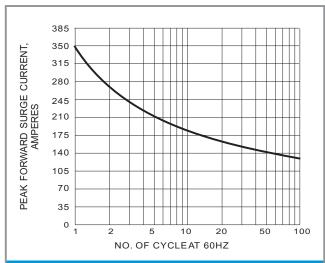


Fig.2 MAXMUM NON-REPETITIVE SURGE CURRENT

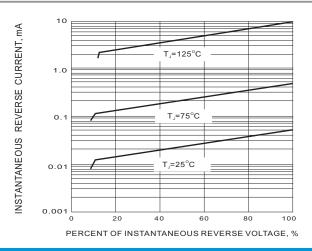


Fig.3 TYPICAL REVERSE CHARACTERISTIC

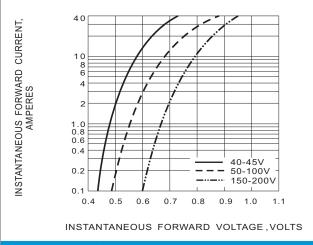


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

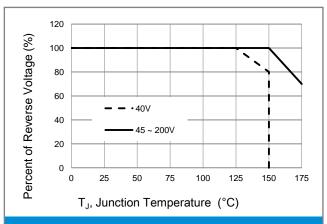


Fig.5 Operating Temperature Derating Curve

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Part No_packing code_Version

MBR4040PT_T0_00001 MBR4040PT_T0_10001

For example:



	Version Code XXXXX					
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)	Ø	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	ш	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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MBR4045PT_T0_00001