



SCHOTTKY BARRIER RECTIFIERS

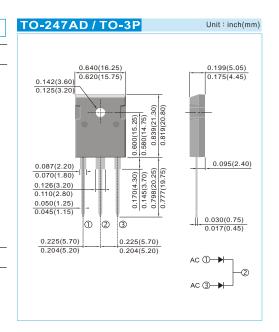
VOLTAGE40 to 45 VoltCURRENT40 Ampere

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.
- Acqire quality system certificate: TS16949
- AEC-Q101 qualified
- 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: 0.224 ounce, 6.367 gram



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-AU MBR4045PT-A		UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	V
Maximum RMS Voltage	V _{RMS}	28	31.5	V
Maximum DC Blocking Voltage	V _{DC}	40	45	V
Maximum Average Forward Current	I _{F(AV)}	4	А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	3	А	
Maximum Forward Voltage at 20A per leg	V _F	0.7		V
Maximum DC Reverse Current at Rated DC T_J =25°C Blocking Voltage T_J =125°C	I _R	0.1 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

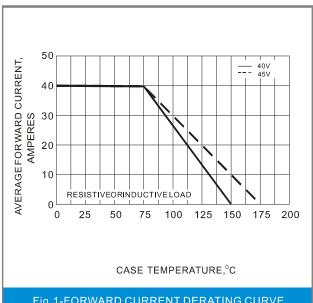


Fig.1-FORWARD CURRENT DERATING CURVE

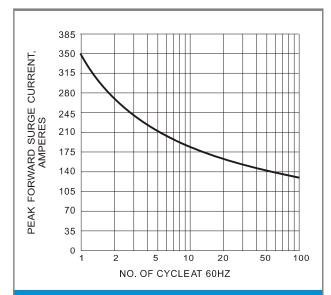
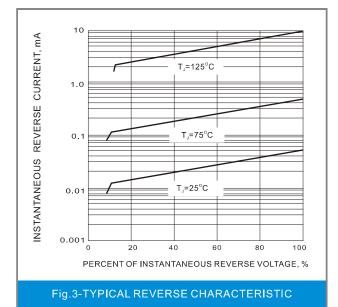
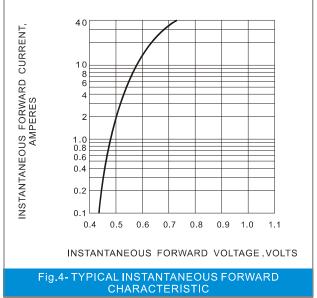


Fig.2-MAXMUM NON-REPETITIVE SURGE CURRENT





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Part No_packing code_Version

MBR4040PT-AU_T0_000A1 MBR4040PT-AU_T0_100A1

For example :



Packing Code XX					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)	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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