



SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 Volt CURRENT 60 Ampere

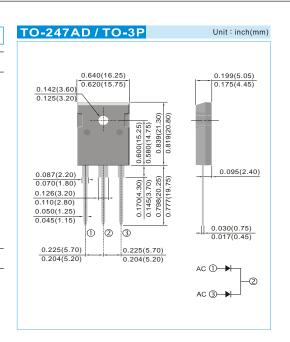
FEATURES

 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 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%

PARAMETER		VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Current	I _{F(AV)}	60	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	400	А
Maximum Forward Voltage at 30A per leg	V _F	0.7	V
	I _R	0.1 20	mA
Typical Thermal Resistance	R _{eJC}	1.5	°C / W
Operating Junction and Storage Temperature Range	T_{J},T_{STG}	-55 to + 150	°C

Note:

Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

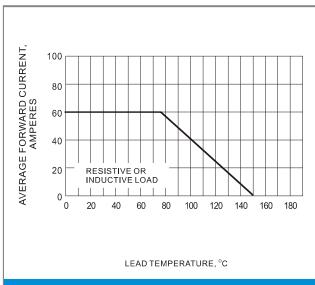


Fig.1-FORWARD CURRENT DERATING CURVE

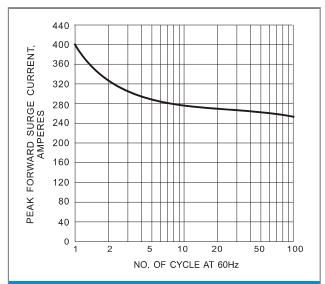


Fig.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

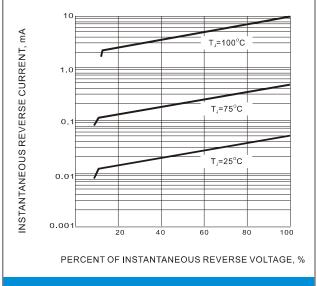


Fig.3-TYPICAL REVERSE CHARACTERISTIC

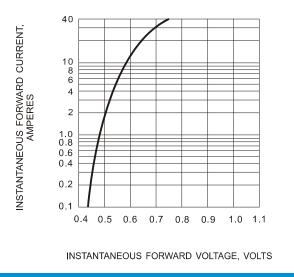


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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Part No_packing code_Version

MBR6040PT-AU_T0_000A1 MBR6040PT-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	Υ			
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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