



SCHOTTKY BARRIER RECTIFIERS

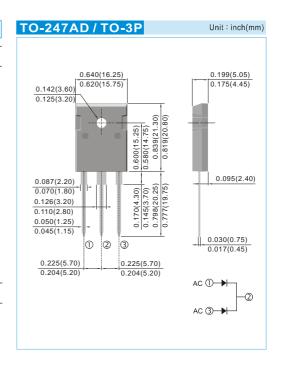
VOLTAGE 45 Volt CURRENT 40 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- · Low power loss, high efficiency.
- · Low forward voltage, high current capability
- · High surge capacity.
- 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
- · Acqire quality system certificate: TS16949
- · AEC-Q101 qualified

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	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS Voltage	V _{RMS}	31.5	V
Maximum DC Blocking Voltage	V _{DC}	40	٧
Maximum Average Forward Current at T c =90 °C	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	0.55	V
Maximum DC Reverse Current at $T_J = 25$ °C Rated DC Blocking Voltage $T_J = 100$ °C	I _R	0.2 50	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.





RATING AND CHARACTERISTIC CURVES

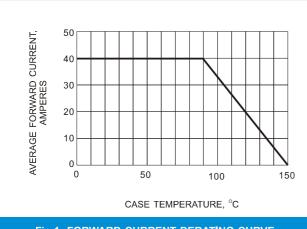


Fig.1- FORWARD CURRENT DERATING CURVE

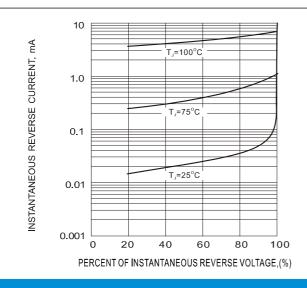


Fig.3- TYPICAL REVERSE CHARACTERISTIC

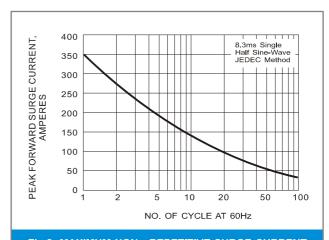


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

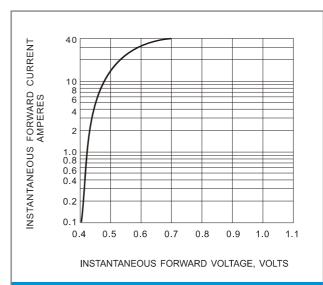


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

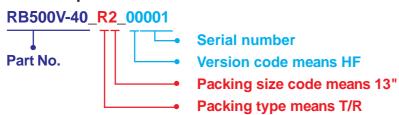




Part No_packing code_Version

SB4045PT-AU_T0_000A1 SB4045PT-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	Х			
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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