



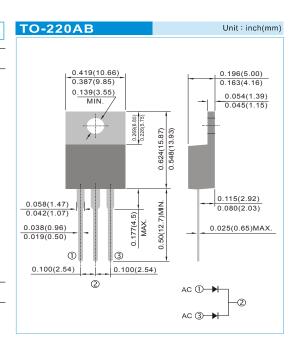
SCHOTTKY BARRIER RECTIFIERS

40 Volts CURRENT 25 Amperes VOLTAGE **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.
- · Acqire quality system certificate: TS16949
- · AEC-Q101 qualified
- · Lead free in comply with EU RoHS 2002/95/EC directives

MECHANCEAL DATA

- · Case: TO-220AB Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked. · Standard packaging: Any
- Weight: 0.0655 ounces, 1.859 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}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Current	I _{F(AV)}	25	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200	А
Maximum Forward Voltage at 12.5A per leg	V _F	0.55	V
Maximum DC Reverse Current at Rated DC Blocking $T_J = 25^{\circ}C$ Voltage $T_J = 100^{\circ}C$	I _R	0.2 100	mA
Typical Thermal Resistance	R _{eJC}	2	°C / W
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	С

Both Bonding and Chip structure are available.

August 25,2010-REV.03 PAGE . 1





RATING AND CHARACTERISTIC CURVES

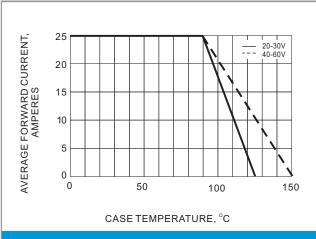


Fig.1- FORWARD CURRENT DERATING CURVE

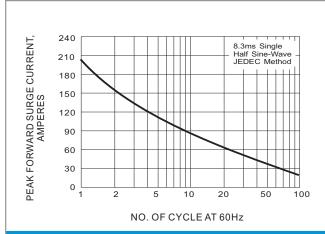


Fig.2- MAXIMUM NON - REPETITIVE SURGE **CURRENT**

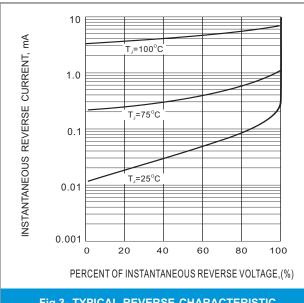


Fig.3- TYPICAL REVERSE CHARACTERISTIC

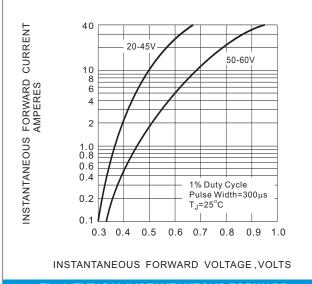


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

PAGE . 2 August 25,2010-REV.03





Part No_packing code_Version

SB2540CT-AU_T0_000A1 SB2540CT-AU_T0_100A1

For example:

RB500V-40_R2_00001



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			

August 25,2010-REV.03 PAGE . 3





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August 25,2010-REV.03 PAGE . 4