



SB820~SB860

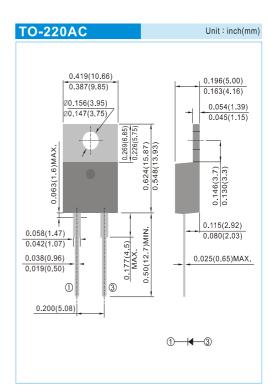
D²PAK SURFACE MOUNTSCHOTTKY BARRIER RECTIFIER

VOLTAGE	20 to 60 Volt	CURRENT					
FEATURES							
 Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound. 							

- · 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
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: TO-220AC molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Weight: 0.067 ounces, 1.89 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%

8 Ampere

PARAMETER		SB820	SB830	SB840	SB845	SB850	SB860	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	V
Maximum RMS Voltage		14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage		20	30	40	45	50	60	V
Maximum Average Forward Current	I _{F(AV)}	8						A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150						A
Aaximum Forward Voltage at 8A		0.55 0.75					V	
Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=100^{\circ}C$		0.2 0.1 50 50				mA		
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	4						°C / W
Operating Junction Temperature Range		-55 to	+125	-55 to +150			°C	
Storage Temperature Range		-55 to +150					°C	

NOTES : Both Bonding and Chip structure are available.



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RATING AND CHARACTERISTIC CURVES

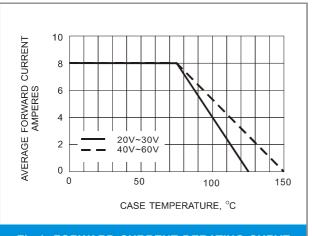
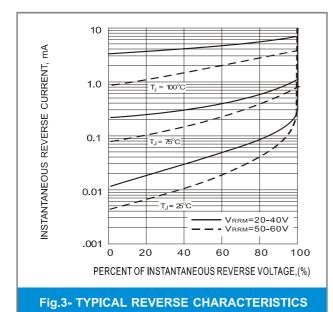
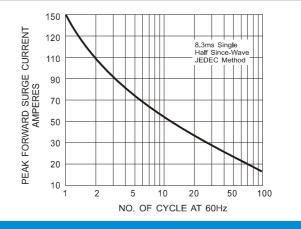


Fig.1- FORWARD CURRENT DERATING CURVE







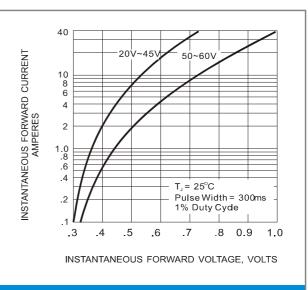
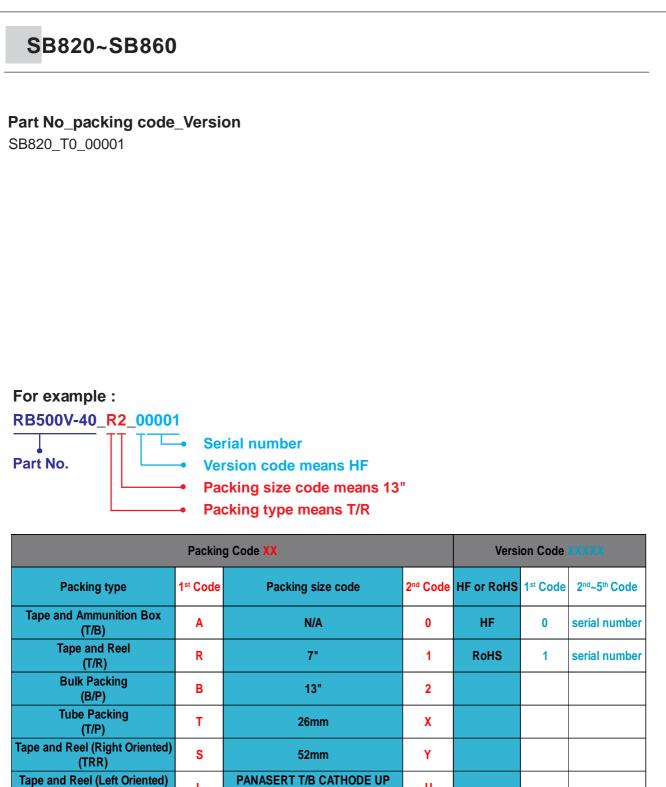


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





(PBCU) PANASERT T/B CATHODE DOWN

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