

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 60 Volts CURRENT 8 Amperes	TO-220AB	Unit : inch(mm)
FEATURES	—	
 Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing 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 comply with EU RoHS 2002/95/EC directives 	0.058(1.47) 0.0412(1.07)	$\begin{array}{c c} 0.196(5.00) \\ \hline 0.163(4.16) \\ \hline 0.054(1.39) \\ \hline 0.045(1.15) \\ \hline \\ $
MECHANICAL DATA	$- \begin{array}{c} 0.038(0.96) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0.50) \\ 0.019(0$	0.025(0.65)MAX.
 Case: TO-220AB molded plastic package Terminals: Lead solderable per MIL-STD-750, Method 2026 Polarity: As marked. Mounting Position: 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%

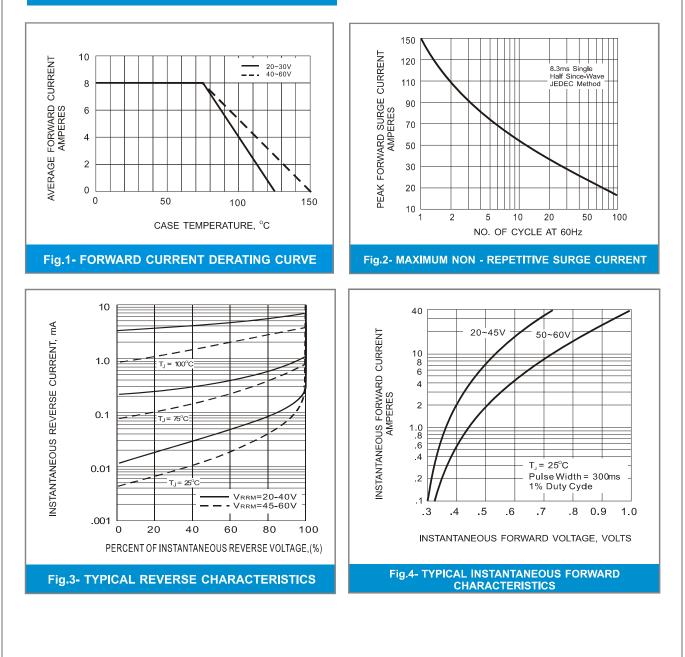
PARAMETER		SB820CT	SB830CT	SB840CT	SB845CT	SB850CT	SB860CT	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	V
Maximum RMS Voltage		14	21	28	31	35	42	V
Maximum DC Blocking Voltage		20	30	40	45	50	60	V
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	8				A		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{fsm}	150				A		
Maximum Forward Voltage at 4A	V _F		0.	.55 0.75			V	
Maximum DC Reverse Current at Rated DC Blocking T _j =25°C Voltage T _j =100°C	I _R		0.2 50		0.1 50		mA	
Typical Thermal Resistance	$R_{_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	3				°C / W		
Operating Junction Temperature Range	Tj	-55 to	+125	5 -55 to +150			°C	
Storage Temperature Range	T _{stg}	-55 to +150			°C			

NOTES:

Both Bonding and Chip structure are available.



RATING AND CHARACTERISTIC CURVES







Part No_packing code_Version

SB820CT_T0_00001 SB820CT_00001 SB820CT_T0_10001 SB820CT_10001

For example :

RB500V-40_R2_00001

Т

L Part No.

Serial number -Version code means HF

- Packing size code means 13"
- Packing type means T/R

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)	A	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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