

# SB220S~SB2100S



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	SB220S	SB230S	SB240S	SB250S	SB260S	SB280S	SB2100S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length	I <sub>F(AV)</sub>	2				A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated	I <sub>FSM</sub>	50				A			
Maximum Forward Voltage at 2A	V <sub>F</sub>	0.5 0.7 0.85		.85	V				
Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=100^{\circ}C$	I <sub>R</sub>	0.5 20					mA		
(Notes 2) Maximuml Thermal Resistance (Notes 1) (Notes 1)	R <sub>eja</sub> R <sub>ejl</sub> R <sub>ejc</sub>	80 48 20				°C / W			
Operating Junction Temperature Range	T	-50 to +125 -50 to +150			o +150	°C			
Storage Temperature Range	T <sub>stg</sub>	-50 to +150			°C				

NOTES:1. The testing condition of the thermal resistance (junction to case and junction to lead) is based on 9.5 mm lead length between two 10cm x 10cm

2. Mounted on a single-sided copper, mini pad.





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**Fig.7 Typical Forward Characteristics** 









#### For example :

RB500V-40\_R2\_00001

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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					





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