



SCHOTTKY BARRIER RECTIFIERS

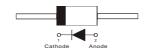
VOLTAGE 20 to 100 Volt CURRENT 2 Ampere

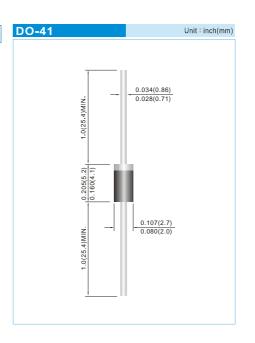
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.012 ounces, 0.3grams





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		20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375*(9.5mm) lead length	I _{F(AV)}	2					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated	I _{FSM}	50						А	
Maximum Forward Voltage at 2A	V _F		0.5		0.7 0.85		.85	V	
Maximum DC Reverse Current at Rated DC Blocking T _j =25°C Voltage T _j =100°C	I _R	0.5 20					mA		
(Notes 2) Maximuml Thermal Resistance (Notes 1) (Notes 1)	$R_{_{\theta JA}} \\ R_{_{\theta JL}} \\ R_{_{\theta JC}}$	80 48 20					°C / W		
Operating Junction Temperature Range	T	-50 to +125 -50 to +150			o +150	°C			
Storage Temperature Range	T _{STG}	-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.





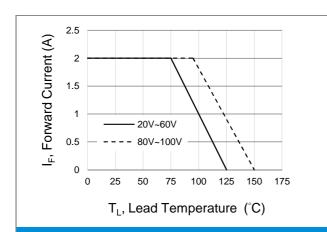


Fig.1 Forward Current Derating Curve

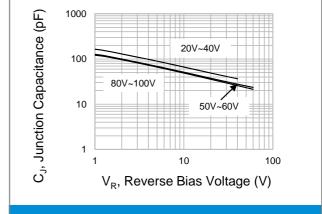


Fig.2 Typical Junction Capacitance

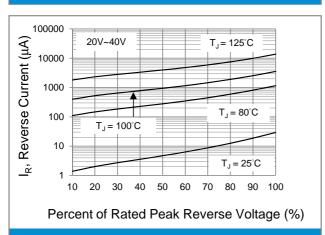


Fig.3 Typical Reverse Characteristics

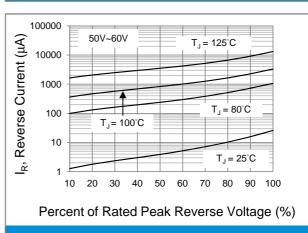
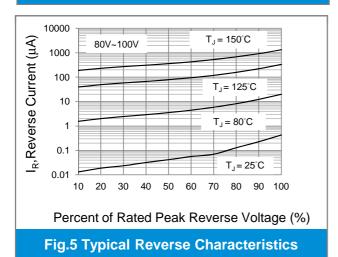
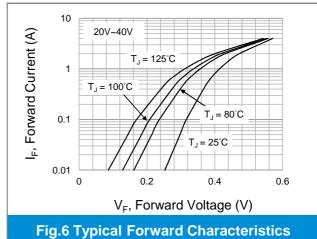


Fig.4 Typical Reverse Characteristics









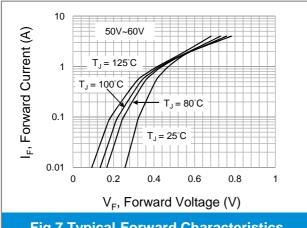


Fig.7 Typical Forward Characteristics

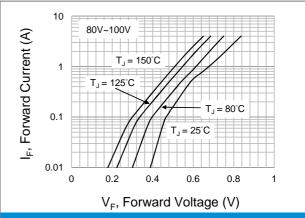


Fig.8 Typical Forward Characteristics

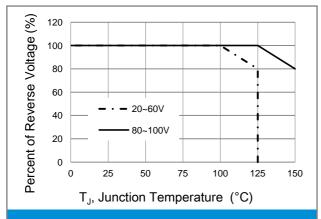


Fig.- Operating Temperature Derating Curve

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Part No_packing code_Version

SB220S_AY_00001

SB220S_AY_10001

SB220S_B0_00001

SB220S_B0_10001

SB220S_R2_00001

SB220S_R2_10001

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	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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