

SB120 thru SB140

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 40 Volts FORWARD CURRENT - 1.0 Amperes

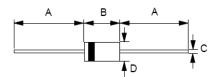
FEATURES

- · Metal-Semiconductor junction with guard ring
- · Epitaxial construction
- · Low forward voltage drop
- · High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- IEC 61000-4-2, level 4 (ESD), > 15KV (air)

MECHANICAL DATA

- Case: JEDEC DO-41 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.012 ounces, 0.34 grams
- Mounting position: Any

DO-41



	DO-41			
Dim.	Min.	Max.		
Α	25.4	-		
В	4.10	5.20		
С	0.71 Ø	0.86 Ø		
D	2.00 Ø	2.70 Ø		
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

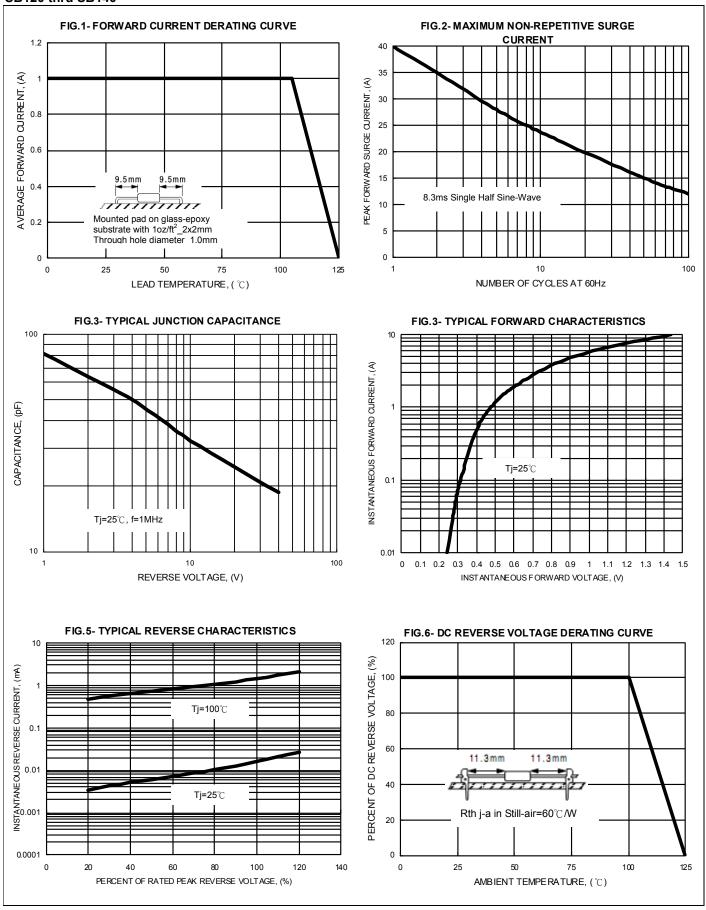
CHARACTERISTICS	SYMBOL	SB120	SB130	SB140	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current 0.395"(9.5mm) Lead length @T _L =105°C	I _{AV}	1.0			А
Peak Forward Surge 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	40			А
Maximum forward Voltage at 1.0A DC	V _F	0.5			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=100°C	I _R	0.1 10			mA
Typical Junction Capacitance(Note 1)	Cj	50			pF
Typical Thermal Resistance (Note 2)	R⊕JL	35			°C/W
Operating Temperature Range	Tj	-55 to +125			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) Thermal Resistance Junction to Lead

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