沛倫股份有限公司
Compact Technology Corp.

SB820 thru SB8200

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **20** to **200** Volts
FORWARD CURRENT - **8.0** Amperes

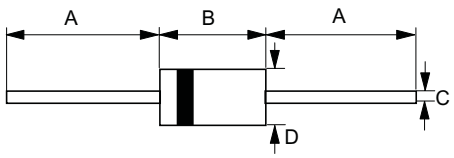
FEATURES

- 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 applications

MECHANICAL DATA

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 1.071 grams
- Mounting position : Any

DO-201AD



	DO-201AD	
Dim.	Min.	Max.
A	25.4	-
B	8.50	9.50
C	1.20	1.30
D	5.00	5.60
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SB 820	SB 830	SB 840	SB 850	SB 860	SB 880	SB 8100	SB 8150	SB 8200	UNIT
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I_F	8									A
Peak forward surge current, 8.3ms single half sine-wave superim posed on rated load	I_{FSM}	130									A
Maximum instantaneous@25°C @100°C	V_F	0.55			0.70		0.85			0.90	V
Maximum DC Reverse Current @25°C at Rated DC Blocking Voltage @100°C	I_R	0.5 15.0					0.2 5.0				mA
Typical Junction Capacitance	C_J	350			270		200			170	pF
Typical Thermal Resistance	$R_{\theta JA}$	60									°C/W
Operating Temperature Range	T_J	-55 to +125									°C
Storage Temperature Range	T_{STG}	-55 to +150									°C

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

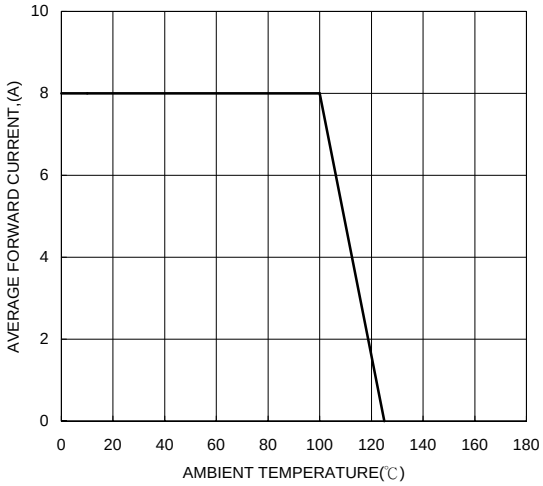


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

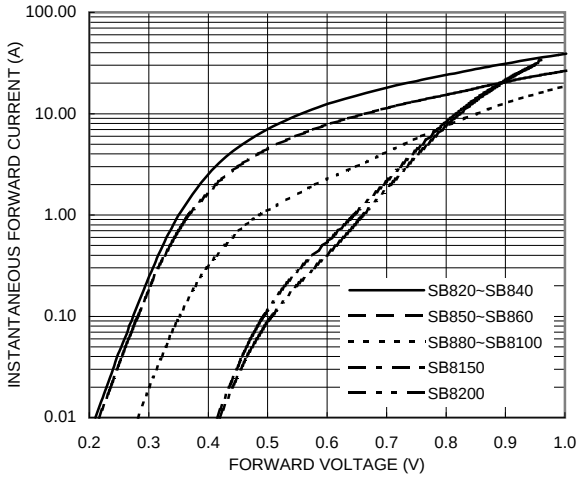


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

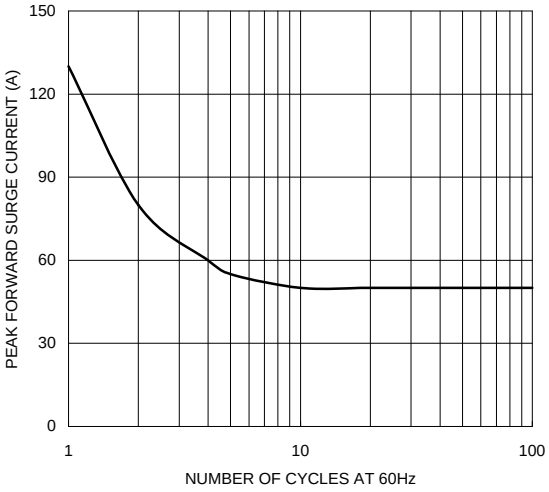


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

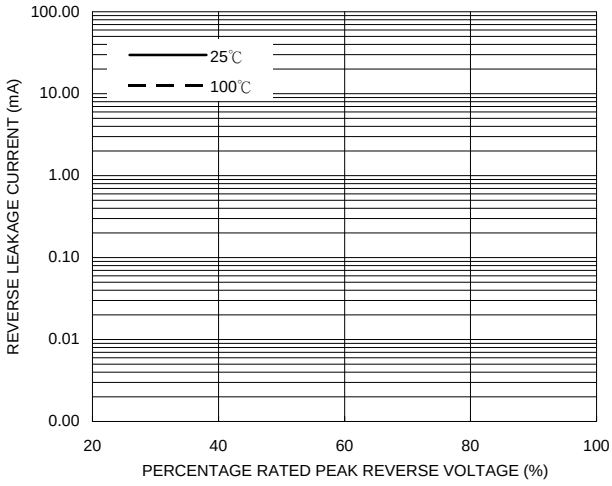


FIG. 5-TYPICAL JUNCTION CAPACITANCE