沛倫股份有限公司
Compact Technology Corp.

B220 thru B2200

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **20** to **200** Volts
FORWARD CURRENT - **2.0** Ampere

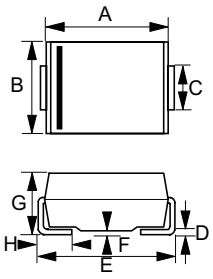
FEATURES

- 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 : SMB , molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.095 grams
- Mounting position : Any

SMB



SMB		
DIM.	MIN.	MAX.
A	4.06	4.70
B	3.30	3.94
C	1.91	2.11
D	0.15	0.31
E	5.08	5.59
F	0.05	0.20
G	2.13	2.44
H	0.76	1.52
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	B220	B230	B240	B250	B260	B280	B2100	B2150	B2200	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	2.0									A
Peak forward surge current, 8.3ms single half sine-wave superim posed on rated load	I_{FSM}	50									A
Maximum instantaneous I F=2A@25℃	V_F	0.50			0.70		0.85		0.87	0.9	V
Maximum DC Reverse Current @TA=25℃ at Rated DC Blocking Voltage @TA=100℃	I_R	0.5 10.0					0.2 5.0				mA
Typical Junction Capacitance	C_J	70			50		50		40	40	pF
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$	80 50									℃/W
Operating Temperature Range	T_J	-55 to +125					-55 to +125				℃
Storage Temperature Range	T_{STG}	-55 to +150					-55 to +150				℃

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

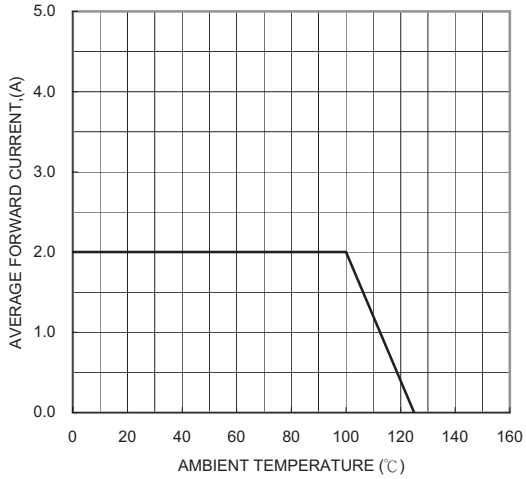


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

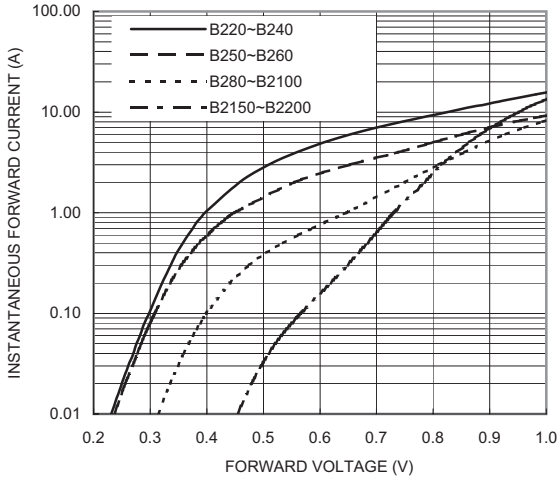


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

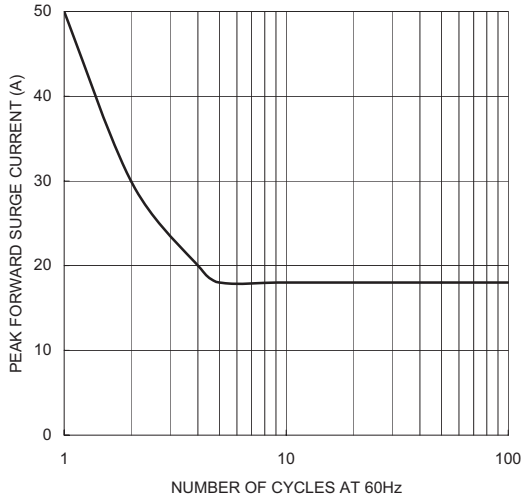


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

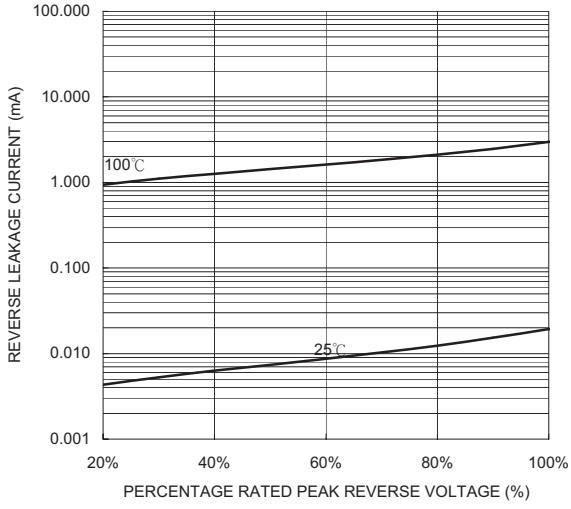


FIG. 5-TYPICAL JUNCTION CAPACITANCE