Elektronische Bauelemente

SM220B THRU SM2100B

VOLTAGE 20V ~ 100V

2.0 AMP Surface Mount Schottky Barrier Rectifiers

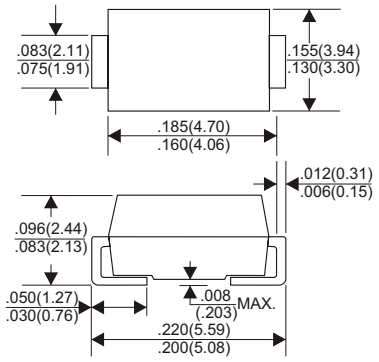
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- RoHS Compliant Product
- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop

DO-214AA (SMB)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.102 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SM220B	SM230B	SM240B	SM260B	SM2100B	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	60	100	V
Working Peak Reverse Voltage	20	30	40	60	100	V
Maximum DC Blocking Voltage	20	30	40	60	100	V
Maximum Average Forward Rectified Current, See Fig. 1	2.0					A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	60					A
Maximum Instantaneous Forward Voltage at 2.0A	0.52			0.65	0.83	V
Maximum DC Reverse Current Ta=25℃ At Rated DC Blocking Voltage Ta=100℃	0.2 15			0.1 10	0.1 4	mA
Typical Junction Capacitance (Note 1)	170					pF
Typical Thermal Resistance RθJA (Note 2)	24					℃ / W
Operating Temperature Range T_J	- 50 ~ + 150					℃
Storage Temperature Range T_{STG}	- 65 ~ + 175					℃

NOTES:
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Valid provided that terminals are kept at ambient temperature.

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●RATING AND CHARACTERISTIC CURVES (SM220B THRU SM2100B)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

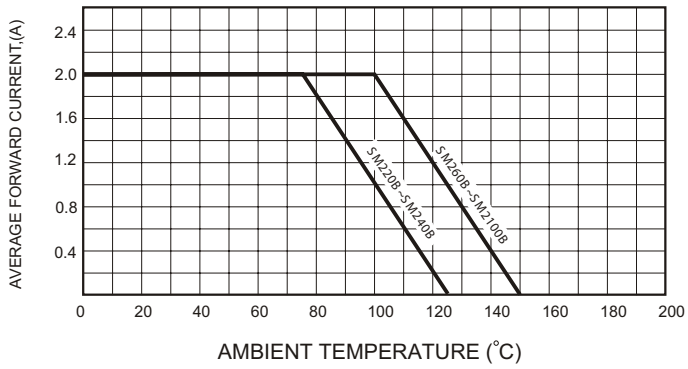

FIG.2-TYPICAL FORWARD CHARACTERISTICS

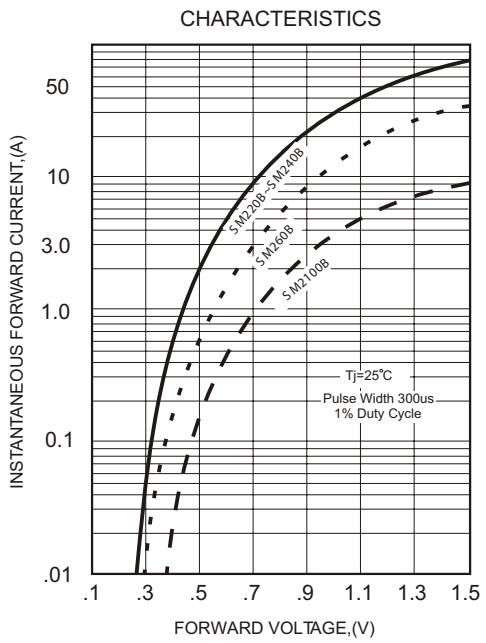

FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

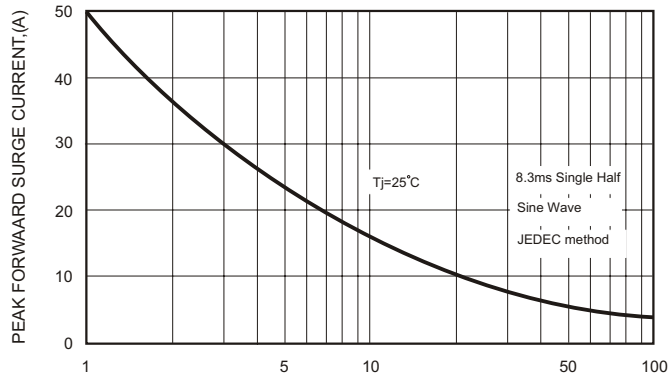

FIG.4-TYPICAL JUNCTION CAPACITANCE

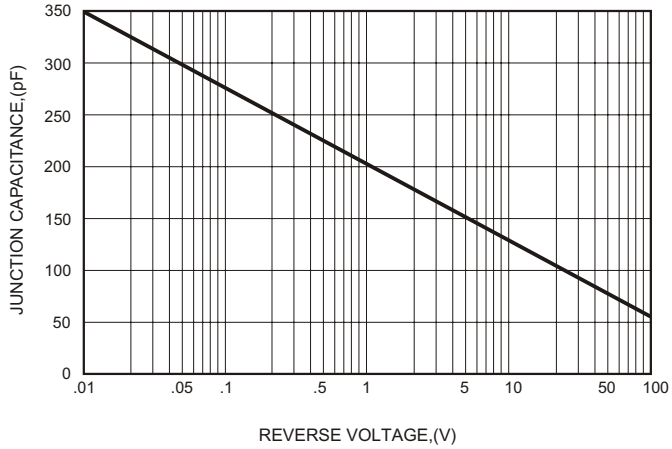

FIG.5 - TYPICAL REVERSE CHARACTERISTICS