Elektronische Bauelemente

SM320C THRU SM3100C

VOLTAGE 20V ~ 100V

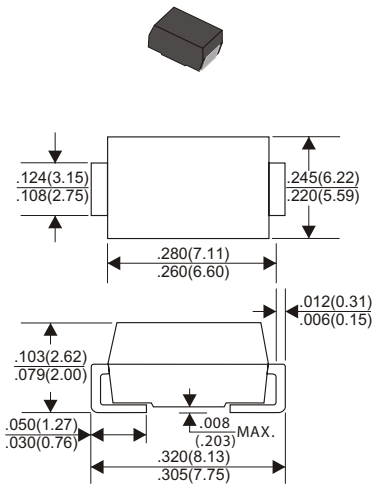
3.0 AMP Surface Mount Schottky Barrier Rectifiers

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-214AB (SMC)



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: 0.25 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%.

	SM320C	SM340C	SM360C	SM3100C	
Maximum Recurrent Peak Reverse Voltage	20	40	60	100	V
Working Peak Reverse Voltage	20	40	60	100	V
Maximum DC Blocking Voltage	20	40	60	100	V
Maximum Average Forward Rectified Current, See Fig. 1	3.0 A				
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	80 A				
Maximum Instantaneous Forward Voltage at 3.0A	0.50		0.65	0.80	V
Maximum DC Reverse Current Ta=25 ℃ At Rated DC Blocking Voltage Ta=100 ℃	0.2 20				mA
Typical Junction Capacitance (Note 1)	300				pF
Typical Thermal Resistance RθJL (Note 2)	18				℃/ 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. Thermal Resistance Junction to Lead.

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●RATING AND CHARACTERISTIC CURVES (SM320C THRU SM3100C)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

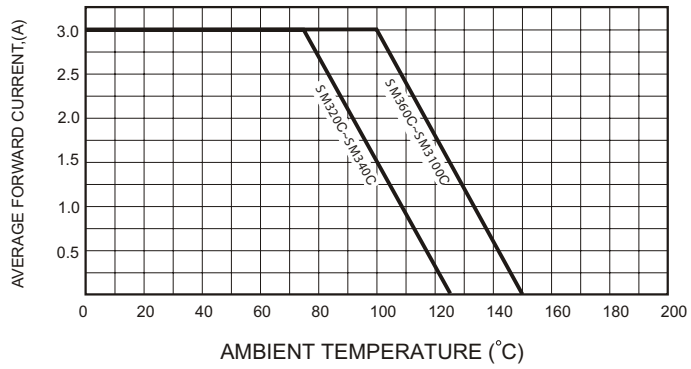

FIG.2-TYPICAL FORWARD CHARACTERISTICS

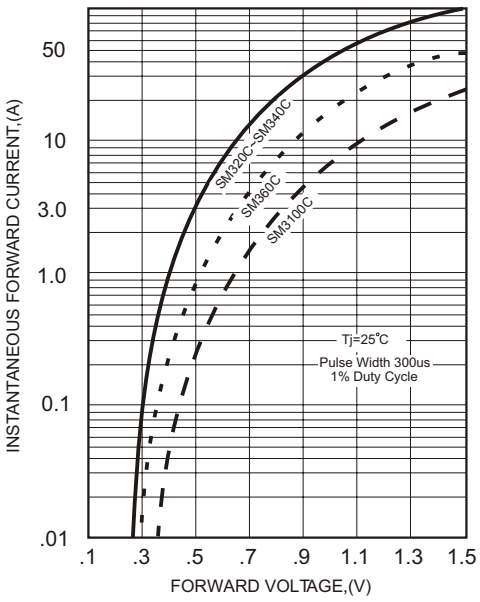

FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

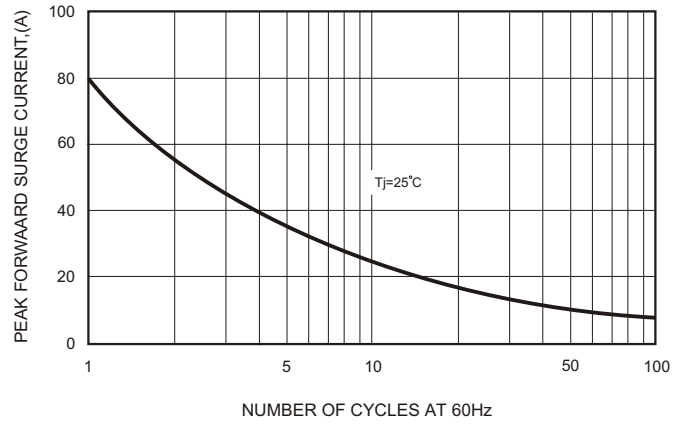

FIG.4-TYPICAL JUNCTION CAPACITANCE

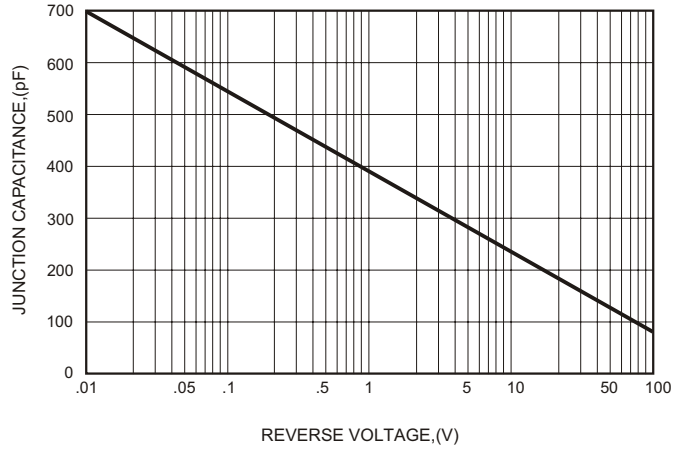

FIG.5 - TYPICAL REVERSE CHARACTERISTICS