

RoHS Compliant Product

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

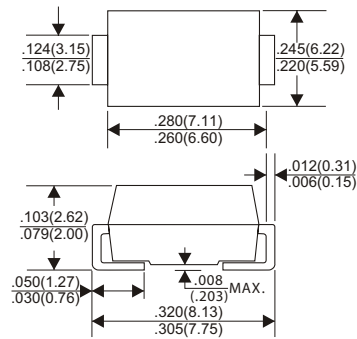
FEATURES

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

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

DO-214AB (SMC)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C 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 °C		0.2			mA
At Rated DC Blocking Voltage Ta=100 °C		20			
Typical Junction Capacitance (Note 1)		300			pF
Typical Thermal Resistance RθJL (Note 2)		18			°C/W
Operating Temperature Range Tj		- 50 ~ + 150			°C
Storage Temperature Range TSTG		- 65 ~ + 175			°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

● RATING AND CHARACTERISTIC CURVES (SM320C THRU SM3100C)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

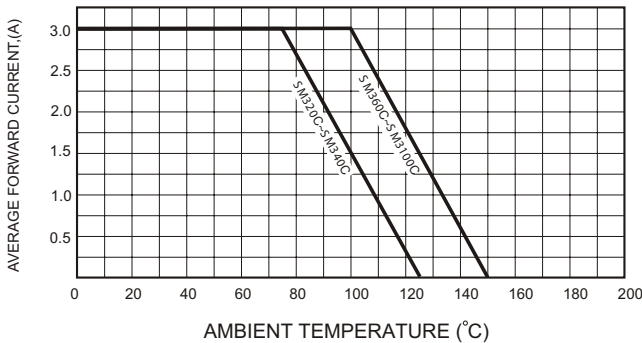


FIG.2-TYPICAL FORWARD CHARACTERISTICS

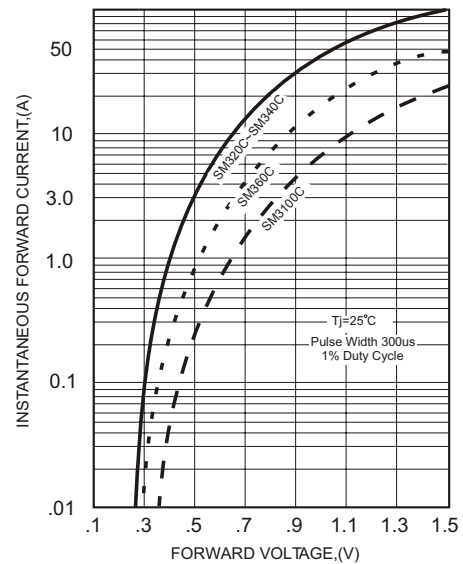


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

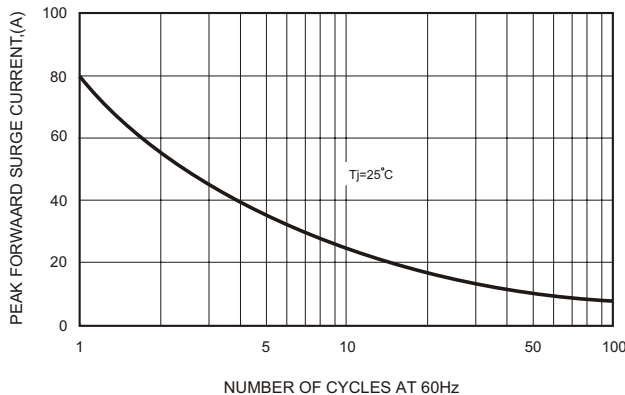


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

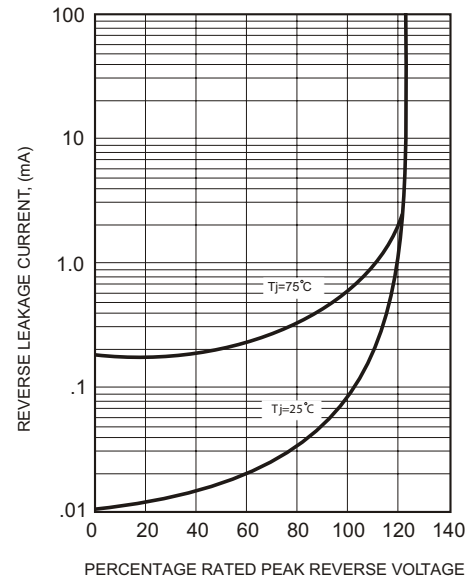


FIG.4-TYPICAL JUNCTION CAPACITANCE

