

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

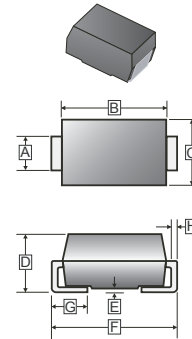
### FEATURES

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

### MECHANICAL DATA

- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Case: Molded plastic
- Epoxy: UL94-V0 rate flame retardant
- Weight: 0.060 grams (approximately)

**SMA**



### PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.25	1.65	E	0.051	0.203
B	3.99	4.60	F	4.78	5.28
C	2.50	2.90	G	0.76	1.52
D	1.98	2.44	H	0.152	0.305

### 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, de-rate current by 20%.)

Parameter	Symbol	Part Number				Unit
		SM320A	SM340A	SM360A	SM3100A	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	60	100	V
Working Peak Reverse Voltage	$V_{RMS}$	20	40	60	100	V
Maximum DC Blocking Voltage	$V_R$	20	40	60	100	V
Maximum Instantaneous Forward Voltage @3.0A	$V_F$	0.45	0.52	0.65	0.83	V
Maximum Average Forward Rectified Current, See Fig.1	$I_o$	3.0				A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	100				A
Maximum Reverse Current	$T_A=25^{\circ}C$	0.2				mA
	$T_A=100^{\circ}C$	20				
Typical Thermal Resistance	$R_{\theta JL}$	30				$^{\circ}C / W$
	$R_{\theta JC}$	20				$^{\circ}C / W$
Storage and Operating & Temperature Range	$T_J, T_{STG}$	-50~150, -60~175				$^{\circ}C$

**RATINGS AND CHARACTERISTIC CURVES**

Typical Forward Current Derating Curve

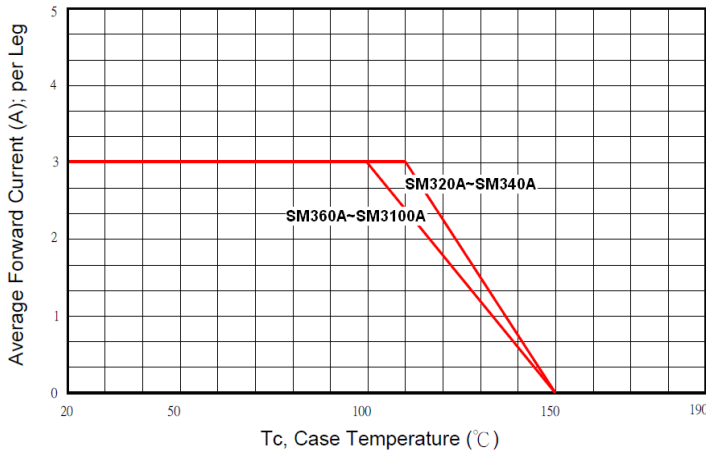


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

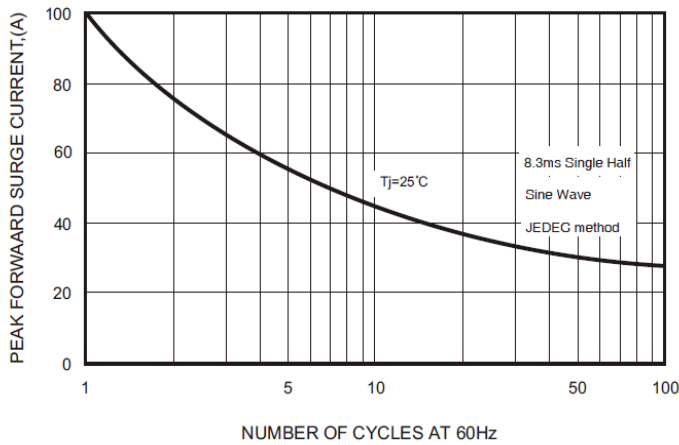


FIG.4-TYPICAL JUNCTION CAPACITANCE

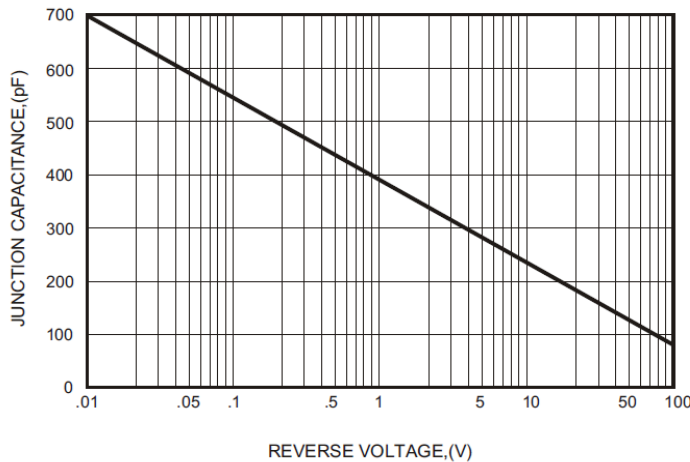


FIG.2-TYPICAL FORWARD CHARACTERISTICS

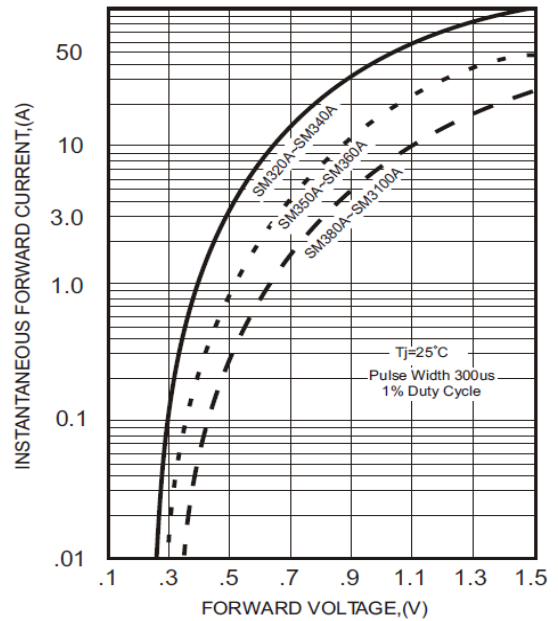


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

