

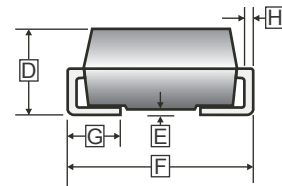
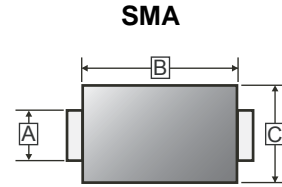
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Super Fast switching speed under 35ns

## MECHANICAL DATA

- Case: Molded plastic SMA/DO-214AC
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode
- Mounting position: Any
- Weight: 0.064 gram



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.203
B	3.99	4.60	F	4.80	5.28
C	2.40	2.90	G	0.76	1.52
D	1.90	2.44	H	0.15	0.305

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13' inch

## 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
		SUF101A	SUF102A	SUF103A	SUF104A	SUF105A	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	V
Maximum Average Forward Rectified Current.375"(9.5mm) Lead Length at $T_A=55^\circ C$	$I_F$	1					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	30					A
Maximum Instantaneous Forward Voltage @ 1.0A	$V_F$	0.95		1.3		1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	5					$\mu A$
	$T_A=100^\circ C$	100					
Maximum Reverse Recovery Time <sup>1</sup>	$T_{RR}$	35					nS
Typical Thermal Resistance <sup>3</sup>	$R_{\theta JA}$	85					$^\circ C/W$
	$R_{\theta JL}$	35					
Typical Junction Capacitance <sup>2</sup>	$C_J$	10					pF
Operating & Storage Temperature	$T_J, T_{STG}$	-55~150					$^\circ C$

Notes:

1. Reverse Recovery Time test condition :  $I_F=0.5A, I_R=1A, I_{RR}=0.25A$
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3. P.C.B Mounted on 0.2\*0.2"(5\*5mm) Copper Pad Area.

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

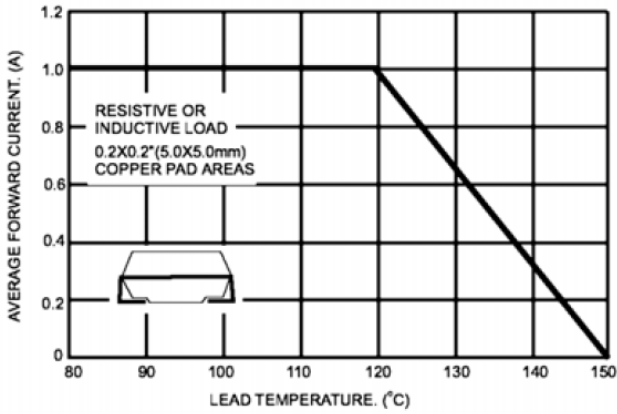


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

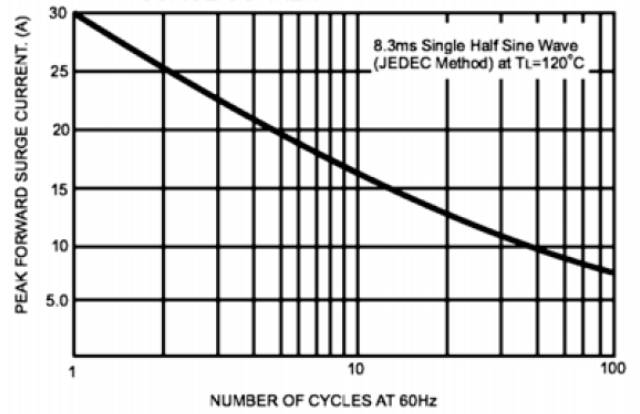


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

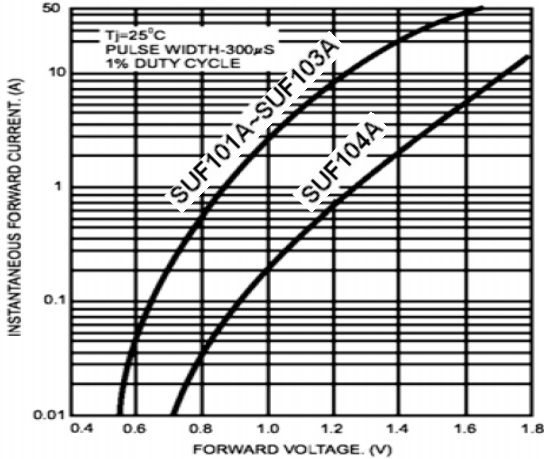


FIG.4- TYPICAL REVERSE CHARACTERISTICS

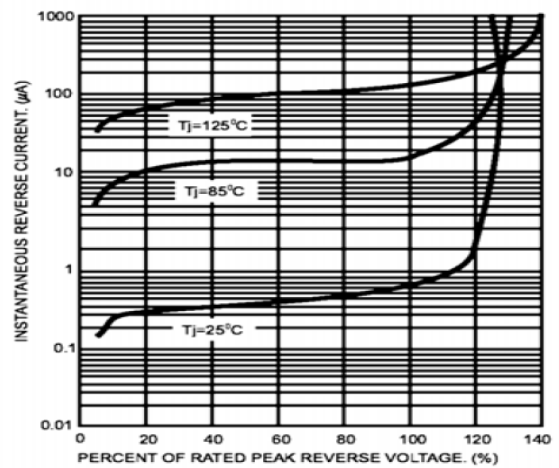


FIG.5- TYPICAL JUNCTION CAPACITANCE

