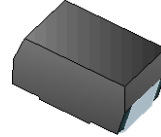


RoHS Compliant Product
 A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Current Capability
- High Reliability
- Low Forward Voltage Drop
- Super Fast Reverse Recovery Time

SMA



MECHANICAL DATA

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026
- Polarity: Cathode Band

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

ORDER INFORMATION

Part Number	Type
SUF101A-C~SUF105A-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Electrical Characteristics Rating 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Part Number					Unit
		SUF 101A-C	SUF 102A-C	SUF 103A-C	SUF 104A-C	SUF 105A-C	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	
Average Forward Rectified Current @ $T_L=100^\circ\text{C}$	I_F	1					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	$T_J=25^\circ\text{C}$	35					A
	$T_J=125^\circ\text{C}$	28					
Maximum Instantaneous Forward Voltage @ $I_F=1\text{A}$	V_F	0.95		1.3	1.7	V	
Maximum DC Reverse Current @ Rated DC Blocking Voltage	$T_J=25^\circ\text{C}$	5					μA
	$T_J=125^\circ\text{C}$	100					
Typical Junction Capacitance ¹	C_J	20		7			pF
Maximum Reverse Recovery Time ²	T_{RR}	35					nS
Typical Thermal Resistance ³	$R_{\theta JA}$	65					$^\circ\text{C/W}$
	$R_{\theta JL}$	25					
	$R_{\theta JC}$	20					
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150					$^\circ\text{C}$

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{RR}=0.25\text{A}$.
3. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" copper pad areas.

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Forward Current Derating Curve

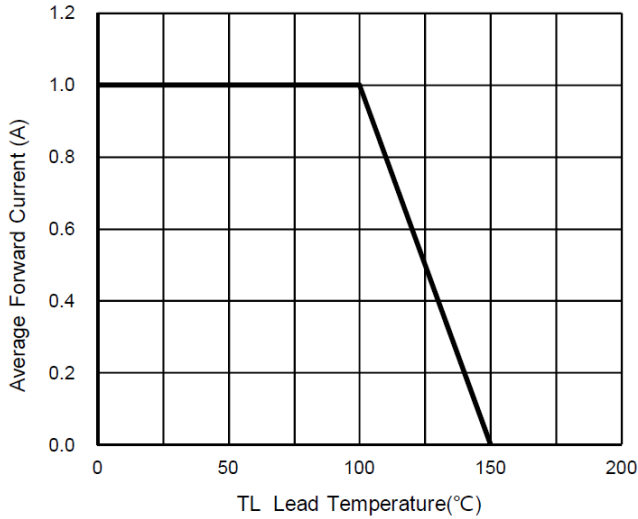


Fig. 2 Typical Forward Characteristics

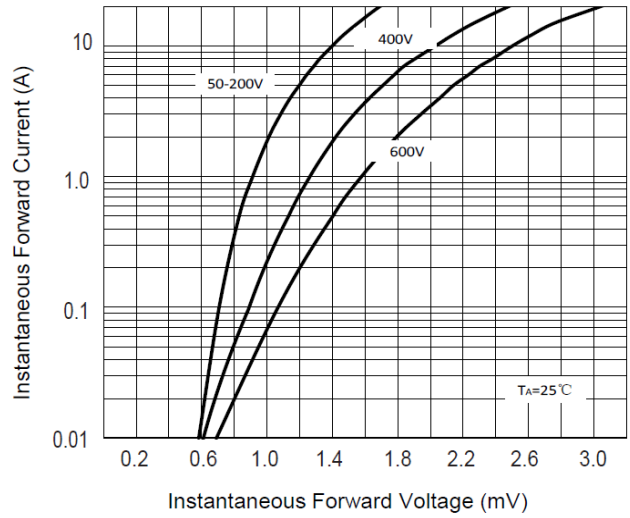


Fig. 3 Forward Surge Current Capability

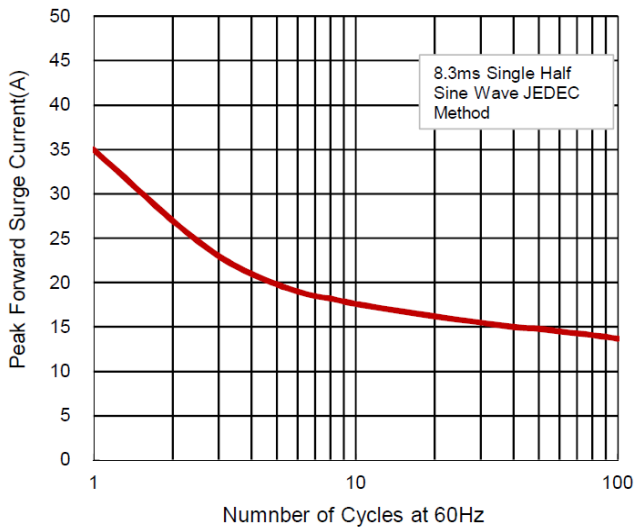
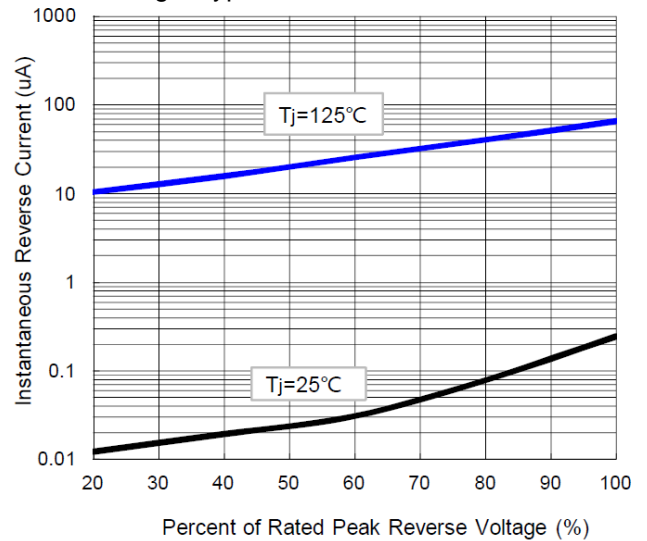
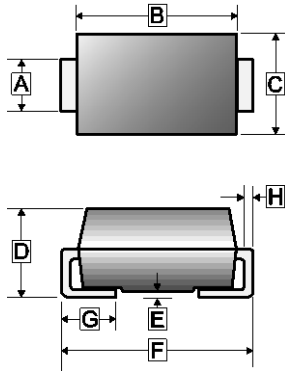


Fig. 4 Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS

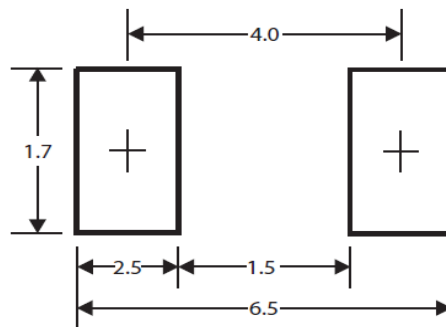
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REF.	Millimeter	
	Min.	Max.
A	1.23	1.65
B	3.99	4.75
C	2.30	2.90
D	1.90	2.62
E	-	0.3
F	4.70	5.28
G	0.75	1.52
H	0.15	0.31

MOUNTING PAD LAYOUT

SMA



*Dimensions in millimeters