

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

FEATURES

- For Surface Mounted Applications
- Low Profile Package
- Glass Passivated Chip Junction
- Superfast Reverse Recovery Time

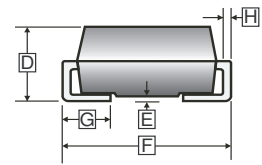
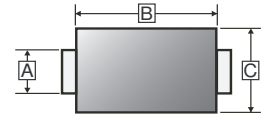
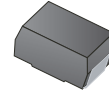
MECHANICAL DATA

- Terminals: Solderable per MIL-STD-750, Method 2026

MARKING

Part Number	Marking Code	Part Number	Marking Code
SUF101AR-C	ES1A	SUF104AR-C	ES1G
SUF102AR-C	ES1B	SUF105AR-C	ES1J
SUF103AR-C	ES1D		

SMA



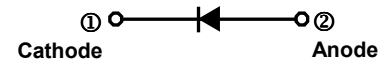
PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.3
B	3.99	4.75	F	4.80	5.28
C	2.30	2.90	G	0.76	1.52
D	1.90	2.62	H	0.15	0.31

ORDER INFORMATION

Part Number	Type
SUF101AR-C~SUF105AR-C	Lead (Pb)-free and Halogen-free



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%.)

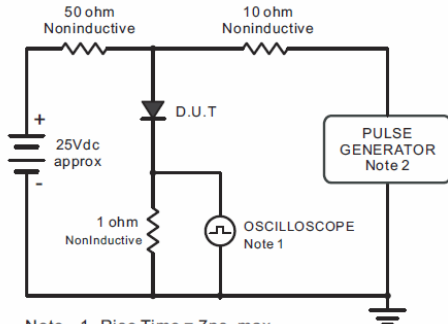
Parameter	Symbol	Part Number					Unit
		SUF101 AR-C	SUF102 AR-C	SUF103 AR-C	SUF104 AR-C	SUF105 AR-C	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1					A
Peak Forward Surge Current @8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30					A
Maximum Forward Voltage @1A	V_F	1			1.25	1.7	V
Maximum DC Reverse Current @Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	5					μA
	$T_A=125^\circ\text{C}$	100					
Typical Junction Capacitance @ $V_R=4\text{V}$, $f=1\text{MHz}$	C_J	15					pF
Maximum Reverse Recovery Time ¹	t_{rr}	35					nS
Typical Thermal Resistance ²	$R_{\theta JA}$	110					°C/W
Operating & Storage Temperature	T_J, T_{STG}	-55~150					°C

Notes:

1. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$.
2. P.C.B. mounted with 1X1" (2.54X2.54cm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max.
Input Impedance = 1megohm, 22pF.
2. Rises Time = 10ns, max.
Source Impedance = 50 ohms.

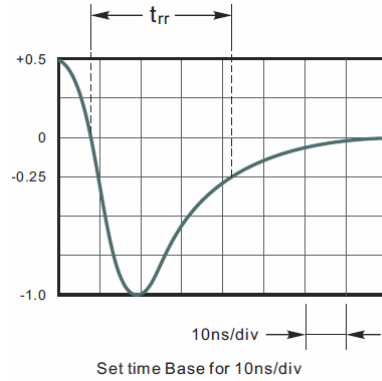


Fig.2 Maximum Average Forward Current Rating

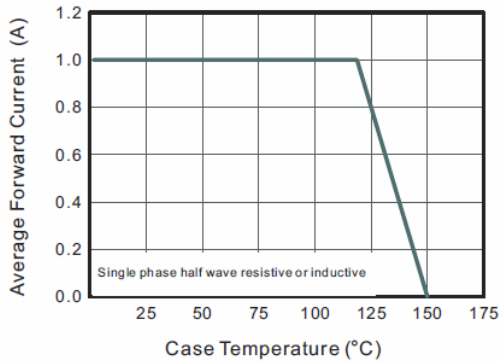


Fig.3 Typical Reverse Characteristics

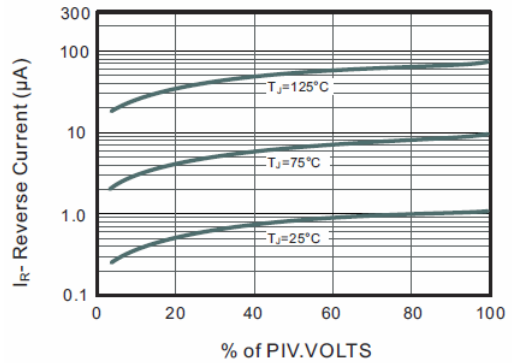


Fig.4 Typical Forward Characteristics

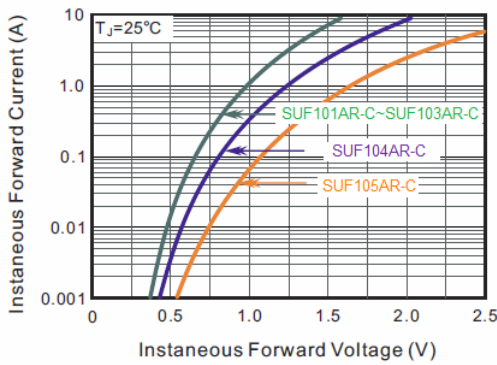


Fig.5 Typical Junction Capacitance

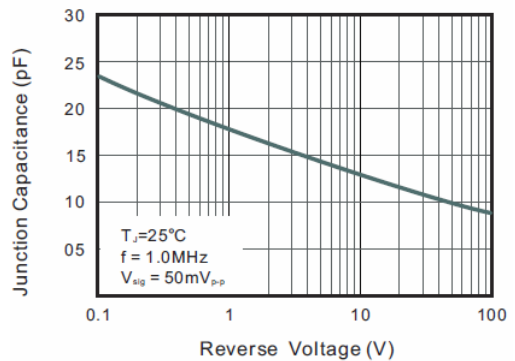


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

