

**Elektronische Bauelemente** 

# SESD03

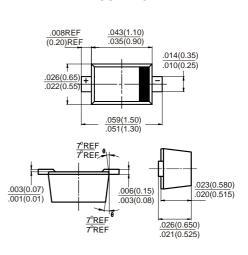
## **VOLTAGE: 3.3V**

110 W Transient Voltage Suppressors Diode

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

# DESCRIPTION

- . Designed to protect voltage sensitive components from ESD.
- . Excellent clamping capability, low leakage and fast response.
- . Cellular phones, MP3 players, digital cameras ... etc.
- . Suitable for electronics where board space is a major design consideration.



SOD-723

#### **FEATURES**

- . Response time is typically < 1 ns
- . Low leakage
- . Stand-off voltage:3.3V
- . ESD rating of class 3 (> 16 kV) per human body model
- . IEC61000-4-2 level 4 ESD protection

Dimensions in inches and (millimeters)

#### **MARKING CODE**

E0

## **MAXIMUM RATINGS**

Rating 25°C ambient temperature unless otherwise specified.

TYPE NUMBER		SYMBOL	LIMITS	UNITS	
IEC61000-4-2 (ESD)	Air Contact		+/- 30 +/- 30	kV	
ESD Voltage	per human body model per machine model	$V_{\text{ESD}}$	16 400	kV V	
Lead Solder Temperature - Max. (10 sec duration)		TL	260	Ĵ	
Thermal Resistance Junction-to-ambient		$R_{ ext{ heta}JA}$	833	°C/W	
Junction and Storage Temperature Range		$T_J, T_{STG}$	-55 ~ +150	C	
Total Power Dissipation on FR-5 board (Note 1)		Pn	150	mW	

Stresses exceeding "Maximum Ratings" may damage the device. "Maximum Ratings" are stress ratings only. Functional operation above the recommended. Operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

1. FR-5 = 1.0 x 0.75 x 0.62 in.

http://www.SeCoSGmbH.com/



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# SESD03

VOLTAGE: 33V

110 W Transient Voltage Suppressors Diode

## ELECTRICAL CHARACTERISTICS (T= 25 °C unless otherwise noted, VF = 0.9V Max. @ IF=10mA for all types)

TYPE NUMBER	SYMBOL	Min.	Тур.	Max.	UNIT	TEST CONDITIONS
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	3.3	V	
Reverse Leakage Current	I <sub>R</sub>	-	-	2.5	μA	$V_{RWM} = 3.3 V$
Peak Pulse Current	IPP	-	-	10.4	A	(surge charge waveform per Figure 2.)
Clamping Voltage	Vc	-	-	11.9	V	I <sub>PP</sub> = 10.4 A (surge charge waveform per Figure 2.)
Reverse Breakdown Voltage	V <sub>BR</sub>	5.0	-	-	V	$I_T = 1 \text{mA}, T_{\text{AMBIENT}} = 25^{\circ}\text{C}$
Test Current	Ι <sub>Τ</sub>	-	1.0	-	mA	
Junction Capacitance	С	-	80	-	pF	
Peak Power Dissipation	P <sub>PK</sub>	-	-	113	W	(surge charge waveform per Figure 2.)

# **ELECTRICAL CHARACTERISTIC CURVES**

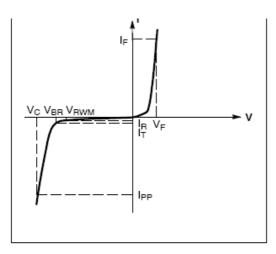
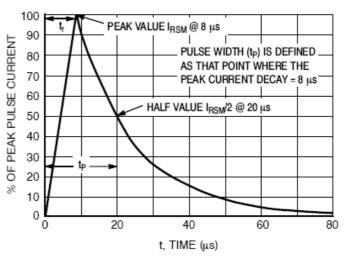


Figure 1. Uni-Directional TVS





http://www.SeCoSGmbH.com/

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Any changing of specification will not be informed individual