

Elektronische Bauelemente

SESD03

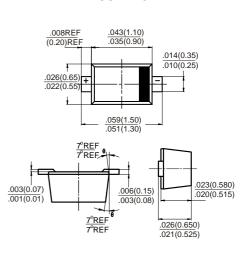
VOLTAGE: 3.3V

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_{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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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 _{RWM}	-	-	3.3	V	
Reverse Leakage Current	I _R	-	-	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 _{PP} = 10.4 A (surge charge waveform per Figure 2.)
Reverse Breakdown Voltage	V _{BR}	5.0	-	-	V	$I_T = 1 \text{mA}, T_{\text{AMBIENT}} = 25^{\circ}\text{C}$
Test Current	Ι _Τ	-	1.0	-	mA	
Junction Capacitance	С	-	80	-	pF	
Peak Power Dissipation	P _{PK}	-	-	113	W	(surge charge waveform per Figure 2.)

ELECTRICAL CHARACTERISTIC CURVES

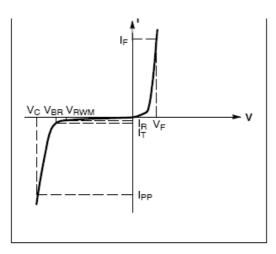
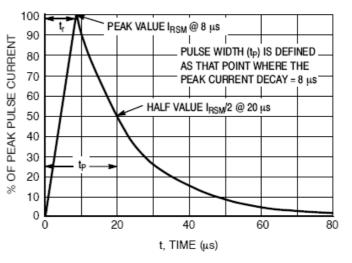


Figure 1. Uni-Directional TVS





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Any changing of specification will not be informed individual