

SESD07

110 W, 7.0 V Transient Voltage Suppressors for ESD Protection (Uni-directional)

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

DESCRIPTION

TheSESD07 is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD. Small size makes it easy to fit in limited board spaces.

APPLICATIONS

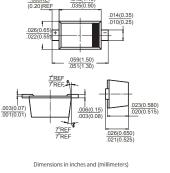
- Cellular phones / audio
- Portable devices
- Digital cameras
- MP3 players

FEATURES

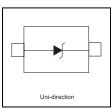
- Stand-off Voltage: 7.0 V
- Low Leakage
- Response Time is typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection
- These are Pb-Free Devices

MARKING CODE

EΕ



The marking band indicates cathode.



ABSOLUTE RATINGS (Tamb = 25°C)

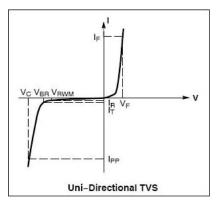
F	Symbol	Value	Units	
IEC 61000-4-2 (ESD)	Air contact		±30	kV
	Contact discharge		±30	kV
ESD voltage	per human body model		16	kV
	per machine model		400	V
Total power dissipation on FR-5	PD	100	mW	
Thermal Resistance Junction-to	$R_{ ext{ heta}JA}$	1250	°C / W	
Junction and Storage Temperatu	T _J , T _{STG}	-55 ~ +150	°C	
Lead Solder Temperature – Max	TL	260	°C	

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.

ELECTRICAL CHARACTERISTICS (Ratings at 25°C ambient temperature unless otherwise specified.)

Symbol	Parameter				
I _{PP}	Max. Reverse Peak Pulse Current				
Vc	Clamping Voltage @ I _{PP}				
V _{RWM}	Working Peak Reverse Voltage				
I _R	Max. Reverse Leakage Current @ V _{RWM}				
V _{BR}	Breakdown Voltage @ I⊤				
Ι _Τ	Test Current				
I _F	Forward Current				
V _F	Forward Voltage @ I _F				
С	Max. Capacitance @ V _R =0 and f=1 MHz				



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Any changes of specification will not be informed individually.



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ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified. $V_F = 0.9V$ max at $I_F = 10$ mA for all types)

Device	V _{RWM} (V)	I _R (uA) @ V _{RWM}			I _T	V _C (V) @ Max I _{PP} *	I _{PP} (A)*	C (pF)
	Max	Max	Min	Max	mA	Max	Max	Тур
SESD07	7.0	1.0	7.5	8.7	1.0	14.1	8.1	55

+Surge current waveform per Figure 1.

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

RATINGS AND CHARACTERISTICS CURVES

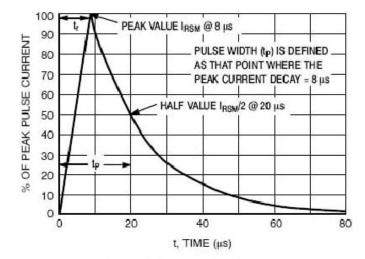
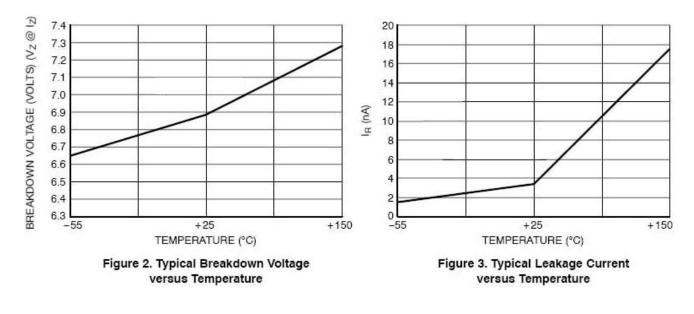


Figure 1.8 x 20 µs Pulse Waveform



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