

DESCRIPTION

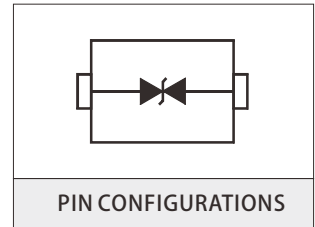
The SESD24C is a transient voltage suppressor array designed for ESD protection of SMART phones, laptop computers and other portable electronics . This silicon based diodes offer superior clamping voltage and performance compared to other technologies such as MLVs.

The SESD24C can be utilized as a single line protector in a bidirectional configuration . The SOD-323 small package configuration offers designers the flexibility of placement on the printed circuit board for each I/O port or voltage bus. The SESD24C Series meets the IEC 61000-4-2 (ESD), 61000-4-4 (EFT) and 61000-4-5 requirements.



FEATURES

- >300 Watts Peak Pulse Power per Line (tp=8/20μs)
- >Protects One Power or I/O Port
- >Low clamping voltage
- >Working voltages: 24V
- >Low leakage current



APPLICATIONS

- >Cell Phone Handsets and Accessories
- >Microprocessor based equipment
- >Personal Digital Assistants (PDA's)
- >Notebooks, Desktops, and Servers
- >Portable Instrumentation
- >Peripherals
- >USB Interface

IEC COMPATIBILITY

- >IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)

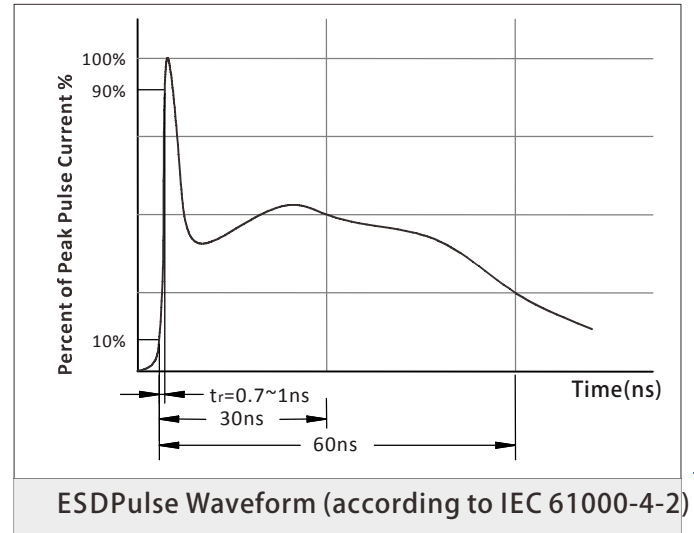
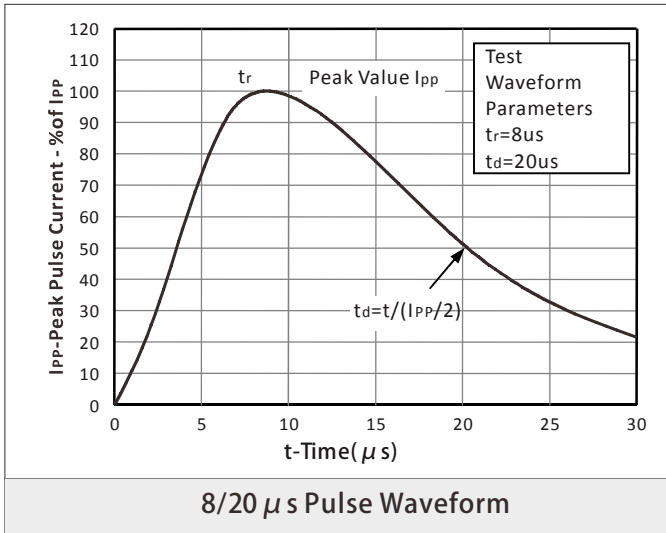
MAXIMUM RATINGS @ 25°C UNLESS OTHERWISE SPECIFIED

PARAMETER	SYMBOL	VALUE	UNIT
Peak Pulse Power (tp=8/20μs waveform)	PPP	300	Watts
Lead Soldering Temperature	TL	260(10 sec.)	°C
Operating Temperature Range	TJ	-40~150	°C
Storage Temperature Range	TSTG	-40~150	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C UNLESS OTHERWISE SPECIFIED

PART NUMBER	DEVICE MARKING	VRWM (V) Max.	VB (V) Min.	IT (mA)	Vc @1A Max.	Vc		IR (uA) Max.	CT (pF) Typ.
						Max.	@A		
SESD24C	2H	24.0	26.7	1	43.0	52.0	6.0	1	75

CHARACTERISTIC CURVES

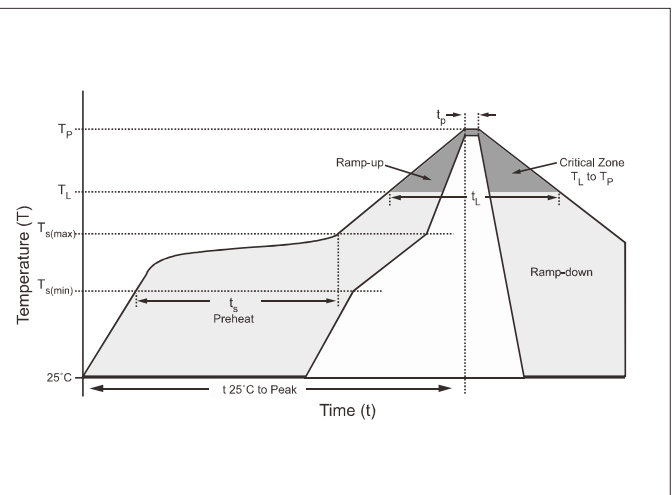


ENVIRONMENTAL CHARACTERISTICS

Testing Items	Technical Standards
High Temperature Reverse Bias Test	Temperature:150 \pm 3 $^{\circ}$ C,Bias=80%V _{DRM} ;Time:168H
High Temperature Life Test	Temperature:150 $^{\circ}$ C;Time:168H
High-Low Temperature Cycle Test	Temperature:From -40 $^{\circ}$ C to 150 $^{\circ}$ C;Dwell Time:30min,10-100 Cycles
High Temperature&High Humidity Test	Temperature:85 $^{\circ}$ C.Humidity:85%; Time:168H
Pressure Cooker Test	Temperature:121 $^{\circ}$ C,2 atm.Humidity:100%; Time:24H To 168H
Resistance Of Soldering Heat	Temperature:260 \pm 5 $^{\circ}$ C;Time Of Dip Soldering:10s,3 Times

REFLOW PROFILE

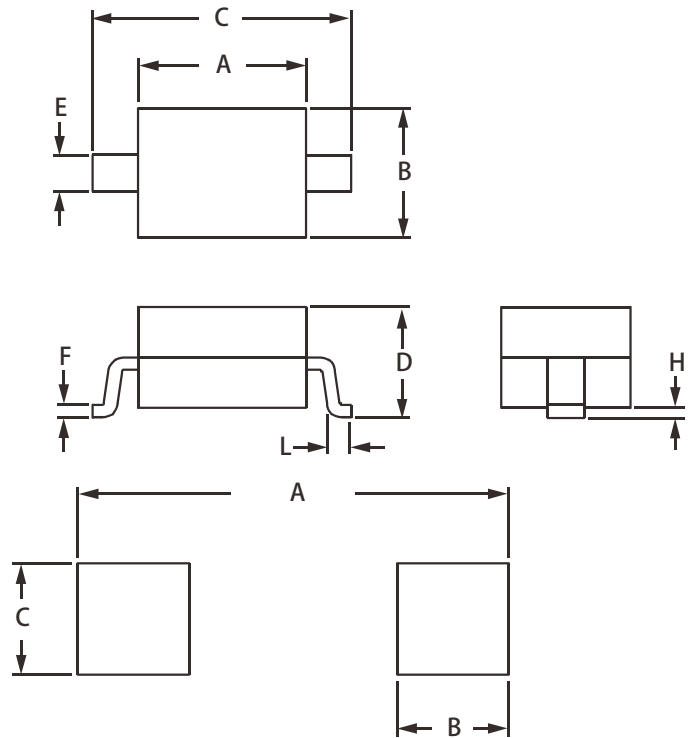
Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min (Ts(min))	150 $^{\circ}$ C
	Temperature Max (Ts(max))	200 $^{\circ}$ C
	Time (min to max) (ts)	60 – 180 secs
Average ramp up rate (Liquidus Temp (TL) to peak)		3 $^{\circ}$ C/second max
Ts(max)to TL - Ramp-up Rate		3 $^{\circ}$ C/second max
Reflow	Temperature (TL) (Liquidus)	217 $^{\circ}$ C
	Time (min to max) (ts)	60 – 150 seconds
Peak Temperature (TP)		260 $^{\circ}$ C
Time within 5 $^{\circ}$ C of actual peak Temperature (tp)		20 – 40 seconds
Ramp-down Rate		6 $^{\circ}$ C/second max
Time 25 $^{\circ}$ C to peak Temperature (TP)		8 minutes Max.
Do not exceed		260 $^{\circ}$ C



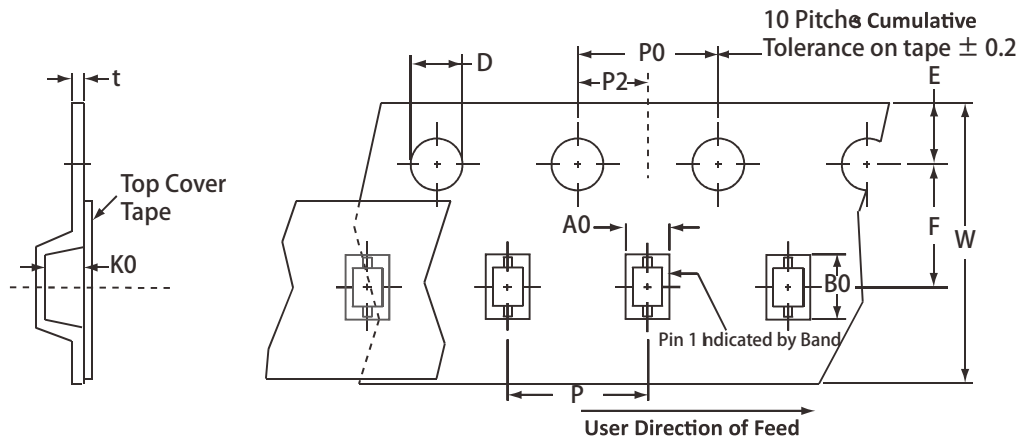
SOD-323 PACKAGE INFORMATION

OUTLINEDIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.90	0.063	0.075
B	1.15	1.45	0.045	0.057
C	2.39	2.70	0.094	0.106
D	0.80	1.10	0.031	0.043
E	0.25	0.40	0.010	0.016
F	0.10	0.20	0.004	0.008
H	-	0.10	-	0.004
L	0.20	-	0.008	-

PADLAYOUT DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.87	3.12	0.113	0.123
B	0.66	0.91	0.026	0.036
C	0.66	0.91	0.026	0.036



TAPE AND REEL



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	1.55 \pm 0.10	2.90 \pm 0.10	1.35 \pm 0.10	1.50 \pm 0.10	1.75 \pm 0.10	3.50 \pm 0.05	8.00 \pm 0.30	4.00 \pm 0.10	2.00 \pm 0.05	4.00 \pm 0.10	0.25
NOTES 1. Dimensions are in millimeters. 2. Surface mount product is taped and reeled in accordance with EIA-481. 3. Suffix - T7 = 7" Reel - 3,000 pieces per 8mm tape. 4. Marking on Part - marking code (see page 1)												

CONTACT US

Headquarters

Room 43A, Block C, E lectronic and Technology Building, Shennan Road, Futian District, Shenzhen
China

Hotline

+86-0755-83239646

Web

[Http://www.szshaoxin.com](http://www.szshaoxin.com)

By Telephone

General: +86-0755-83239646

By Fax

+86-0755-83239644
