

## 1.Features

The SESD3Z08C is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium.

## 2.Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

## 3.Features

- Small Body Outline Dimensions
- Low Body Height
- Peak Power up to 350 Watts @8x20\_μs Pulse
- Low Leakage current

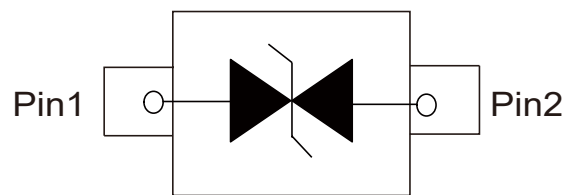
Response Time is Typically < 1 ns

ESD Rating of Class 3 (> 16 kV) per Human

Body Mode

- Complies with the following standards
- IEC61000-4-2
- Level 4 15 kV (air discharge)  
8 kV(contact discharge)
- MIL STD 883E - Method 3015-7 Class 3  
25 kV HBM (Human Body Model)

## 4.Pinning information



**SOD-323**



## 5. Absolute Maximum Ratings $T_{amb} = 25^{\circ}\text{C}$

Parameter	Symbol	Maximum	Units
Peak Pulse Power ( $t_p=8/20\mu\text{s}$ )	$P_{PK}$	350	W
Maximum lead temperature for soldering during 10s	$T_L$	260	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to 155	$^{\circ}\text{C}$
Junction Temperature	$T_{OP}$	-40 to 125	$^{\circ}\text{C}$
Maximum junction temperature	$T_J$	150	$^{\circ}\text{C}$

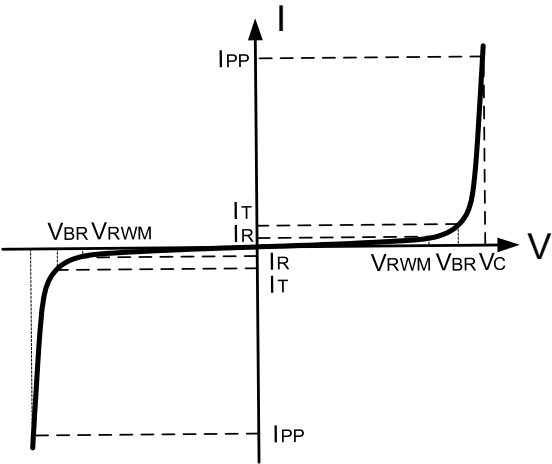


6.Electrical Characteristics

Device	V <sub>BR</sub>			I <sub>T</sub>	V <sub>RWM</sub>	I <sub>R</sub>	C
	Min.	Typ.	Max.				Typ.(Note1)
	V	V	V				pF
SESD3Z08C	8.6	9.5	10.2	1	5	1	24

- Notes:
1. Capacitance is measured at f=1MHz, VR=0V,T<sub>A</sub>=25°C.

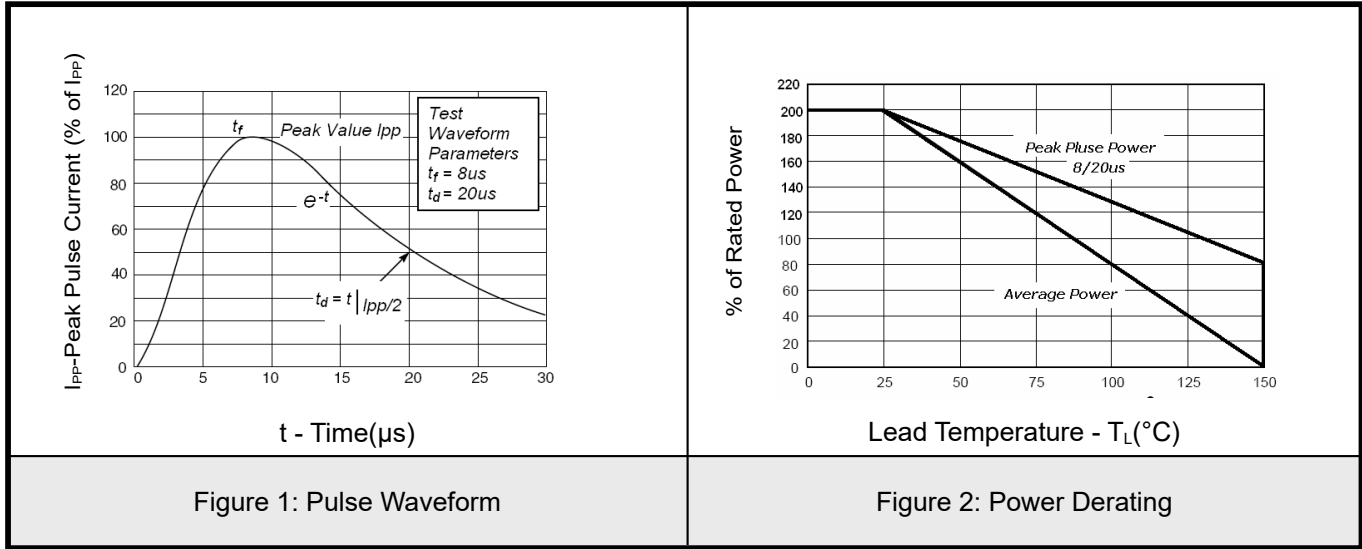
7.Electrical Parameters



Symbol	Parameter
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current
V <sub>C</sub>	Clamping Voltage @ I <sub>PP</sub>
V <sub>RWM</sub>	Working Peak Reverse Voltage
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>
I <sub>T</sub>	Test Current
V <sub>BR</sub>	Breakdown Voltage @ I <sub>T</sub>

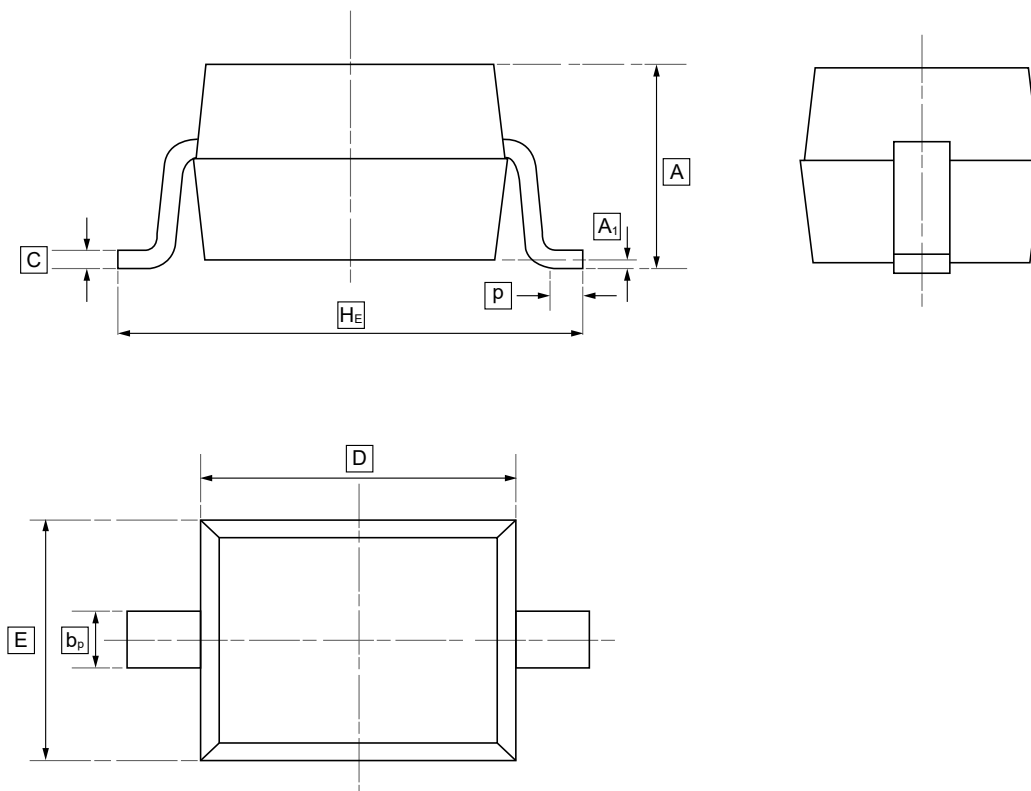


8. Typical characteristic





## 9.SOD-323 Package Outline Dimensions



### DIMENSIONS (mm are the original dimensions)

Symbol	A	$b_p$	C	D	E	$H_E$	$A_1$	P
Min	0.90	0.25	0.10	1.60	1.15	2.30	0.01	0.20
Max	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50



10.Ordering information



ww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW SESD3Z08C	SOD-323	3000	Tape and reel



## **11.Disclaimer**

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