

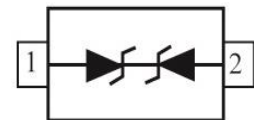
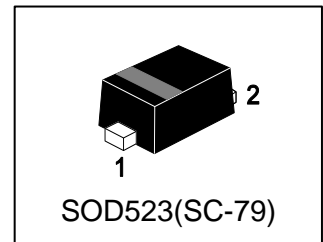
# LESD5Z5.0CT1G

## S-LESD5Z5.0CT1G

Transient Voltage Suppressors for ESD Protection

### 1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Peak power up to 200 Watts @ 8 x 20  $\mu$ s Pulse
- ESD rating of Class 3 (> 16 kV) per Human Body Model
- Small body outline dimensions
- Low leakage
- Response time is typically < 1.0 ns
- IEC61000-4-2 level 4 ESD protection
- IEC61000-4-4 Level 4 EFT protection



### 2. DEVICE MARKING AND ORDERING INFORMATION

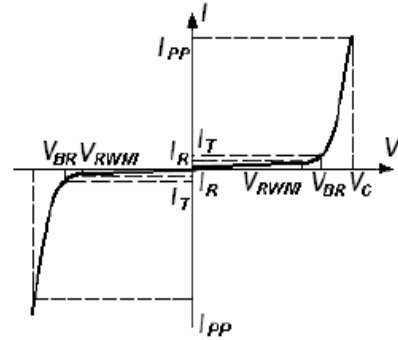
Device	Marking	Shipping
LESD5Z5.0CT1G	5C	3000/Tape&Reel
LESD5Z5.0CT5G	5C	8000/Tape&Reel

### 3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD)	Contact	$\pm 8$	kV
	Air	$\pm 15$	
IEC 61000 - 4 - 4 (EFT)		40	kV
ESD Voltage(Per Human Body Model)		16	kV
Peak Pulse Power (tp = 8/20 $\mu$ s)	PPP	200	W
Maximum Junction Temperature	TJ	150	°C
Operating Temperature Range	TOP	-55 ~ +150	°C
Lead Solder Temperature - Maximum (10 Second Duration)	TL	260	°C
Storage temperature	Tstg	-55 ~ +155	°C

**4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

Symbol	Parameter
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
VRWM	Working Peak Reverse Voltage
IR	Maximum Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
IT	Test Current

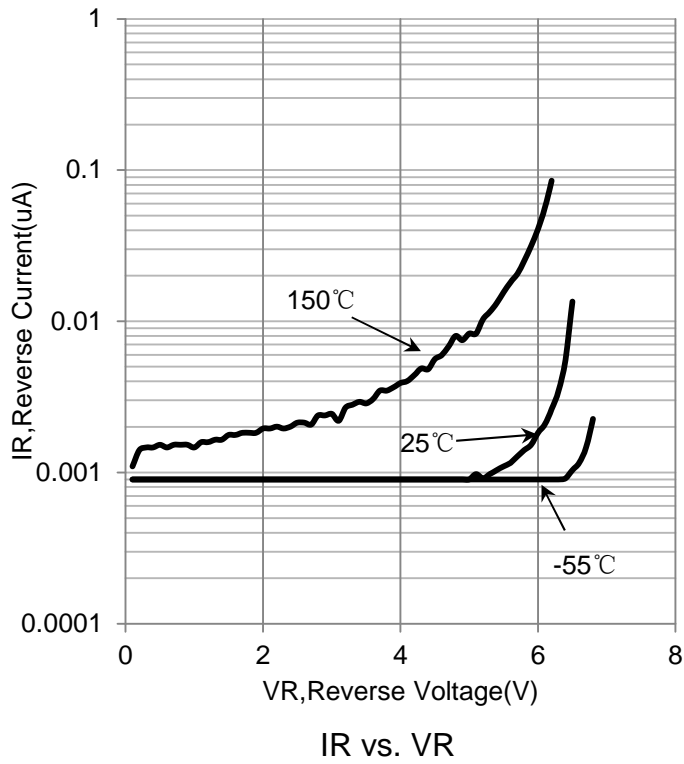


**5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

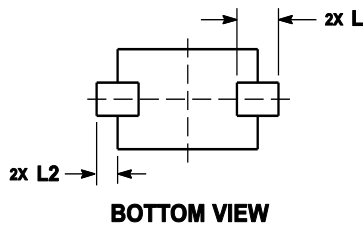
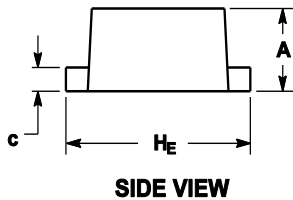
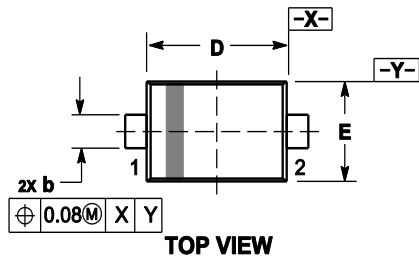
DEVICE	VRWM (V)	IR (μA) @VRWM	VBR (V) @IT (Note 1)		IT (mA)	VC (V) @IPP=5A	VC (V) @Max.IPP	IPP(A)	PPK(W)	C (pF)
	Max.	Max.	Min.	Max.		Max.	Max.	Max.	Max.	Typ.
LESD5Z5.0CT1G	5	1	5.6	7.8	1	11.6	18.6	9.4	174	25

1. VBR is measured with a pulse test current  $I_T$  at an ambient temperature of 25°C.

## 6. ELECTRICAL CHARACTERISTICS CURVES



### 7. OUTLINE AND DIMENSIONS

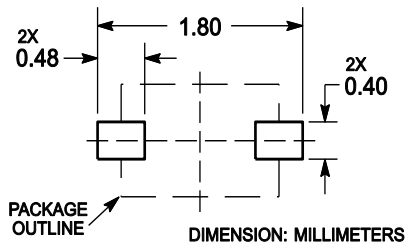


Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.50	0.60	0.70	0.020	0.024	0.028
b	0.25	0.30	0.35	0.010	0.012	0.014
c	0.07	0.14	0.20	0.003	0.006	0.008
D	1.10	1.20	1.30	0.043	0.047	0.051
E	0.70	0.80	0.90	0.028	0.031	0.035
H <sub>E</sub>	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF			0.012 REF		
L <sub>2</sub>	0.15	0.20	0.25	0.006	0.008	0.010

### 8. SOLDERING FOOTPRINT



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