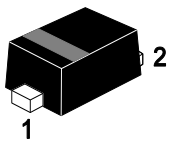
S-LESD5Z5.0CAT5G

Transient Voltage Suppressors for ESD Protection



SOD523(SC-79)

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 70 Watts @ 8 x 20 us Pulse
- ESD rating of Class 3 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

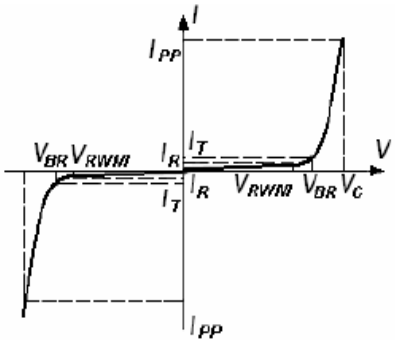
Device	Marking	Shipping
S-LESD5Z5.0CAT5G	CA5	8000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25ºC)

Parameter		Symbol	Limits	Unit
IEC 61000−4−2 (ESD)	Contact Air		± 30 ± 30	KV
IEC 61000 - 4 - 4 (EFT)			40	A
Peak Pulse Power (tp = 8/20μs)(Note 2)		PPP	70	W
Maximum Junction Temperature		TJ	150	ºC
Operating Temperature Range		TOP	−55～+150	ºC
Lead Solder Temperature − Maximum (10 Second Duration)		TL	260	ºC
Storage temperature		Tstg	−55～+155	°C

4. ELECTRICAL CHARACTERISTICS (Ta= 25ºC)

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= 25ºC)

DEVICE	VRWM (V)	IR (μA) @VRWM	VBR (V) @IT (Note 1)		IT	VC (V) @IPP=5A	VC (V) @Max.IPP	IPP(A) (Note 2)	PPK(W) (Note 2)	C (pF)
	Max.	Max.	Min.	Max.	(mA)	Max.	Max.	Max.	Max.	Max.
S-LESD5Z5.0CAT5G	5	0.5	5.6	7.8	1	10.5	13	9.5	70	25

1. VBR is measured with a pluse test current IT at an ambient temperature of 25℃.
2. Surge current waveform per Figure 1 according to IEC 61000-4-5.

6. ELECTRICAL CHARACTERISTICS CURVES

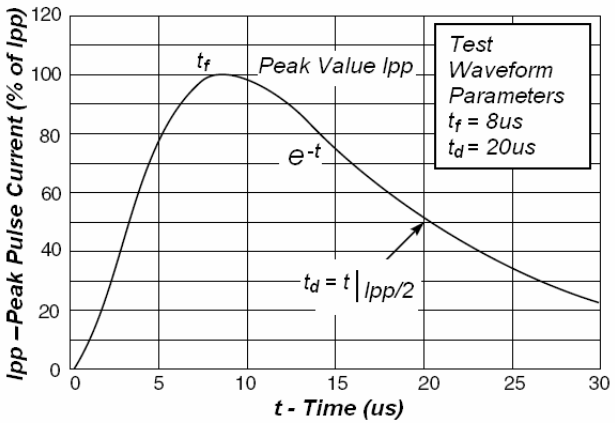


Figure 1. Pulse Waveform according to IEC 61000-4-5

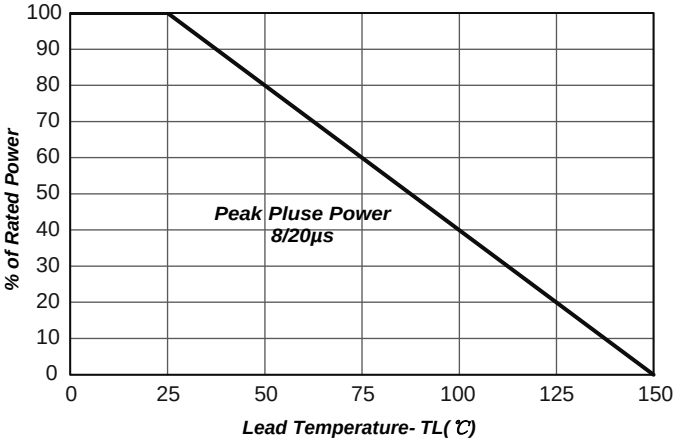


Figure 2. Power Derating Curve

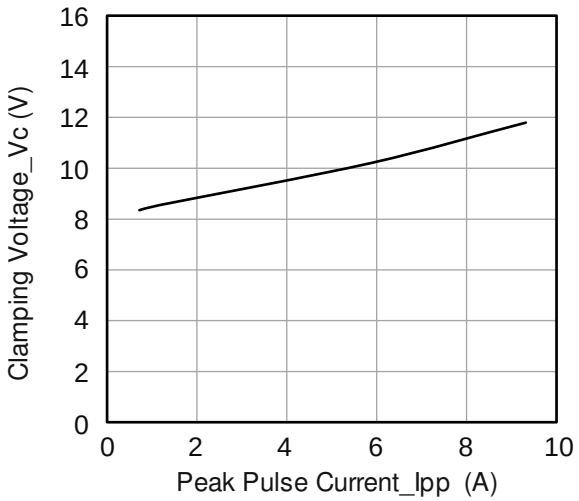


Figure 3.Clamping Voltage vs.Peak Pulse Current according to IEC 61000-4-5

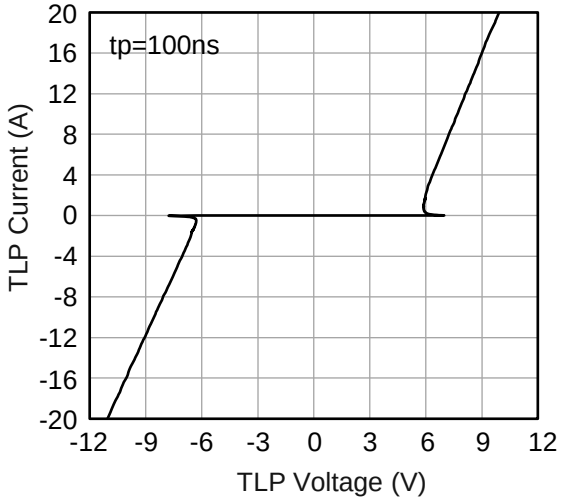
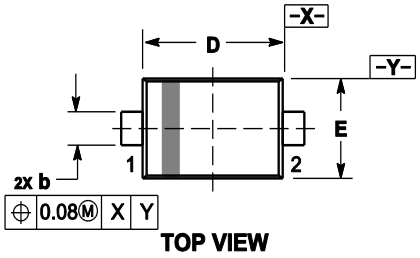
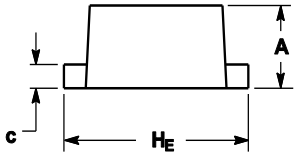


Figure 4. TLP Measurement

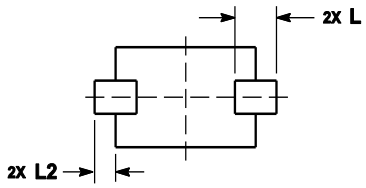
7.OUTLINE AND DIMENSIONS



TOP VIEW



SIDE VIEW



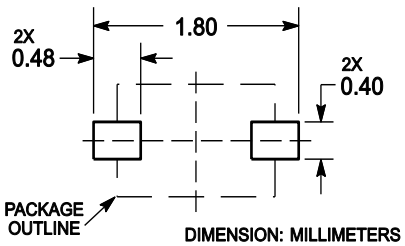
BOTTOM VIEW

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.

	MILLIMETERS			INCHES		
DIM	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_E	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF			0.012 REF		
L_2	0.15	0.20	0.25	0.006	0.008	0.010

8.SOLDERING FOOTPRINT



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