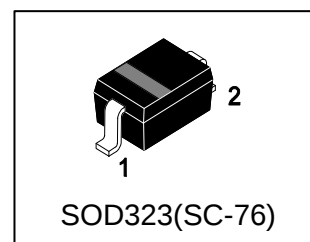


S-LESD3Z24CT1G

ESD Protection Diodes

1. FEATURES

- Ultra low leakage: nA level.
- Low clamping voltage.
- ESD protection
- Complies with IEC 61000-4-2 standards: Air discharge: $\pm 24\text{kV}$
Contact discharge: $\pm 24\text{kV}$
- 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.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-LESD3Z24CT1G	CAT	3000/Tape&Reel

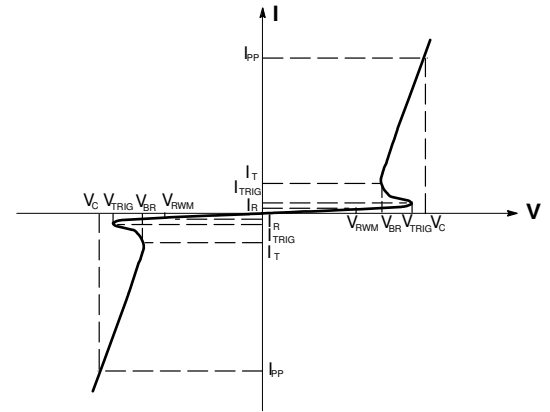
3. MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD) Contact		± 24	kV
Air		± 24	
peak pulse power@8/20 μs (Note 1)	PPP	120	W
peak pulse current @8/20 μs (Note 1)	IPP	3	A
Storage Temperature Range	Tstg	$-55 \sim +150$	$^\circ\text{C}$
Operating Temperature Range	TJ	$-55 \sim +150$	$^\circ\text{C}$

Note 1. Surge current waveform per Figure 1 according to IEC 61000-4-5.

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
VTRIG	
ITRIG	Reverse trigger current



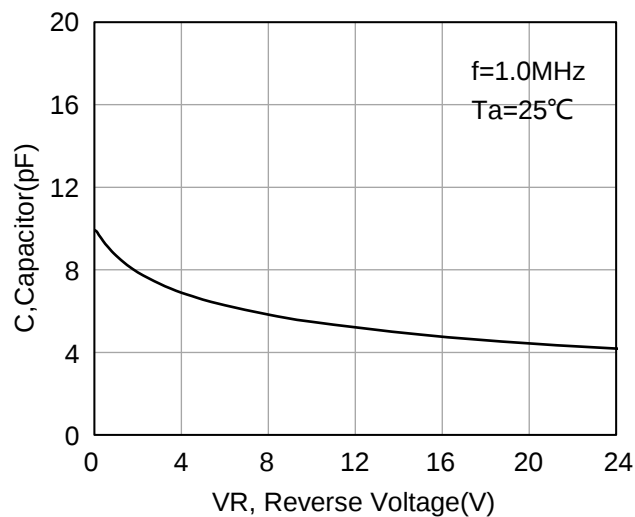
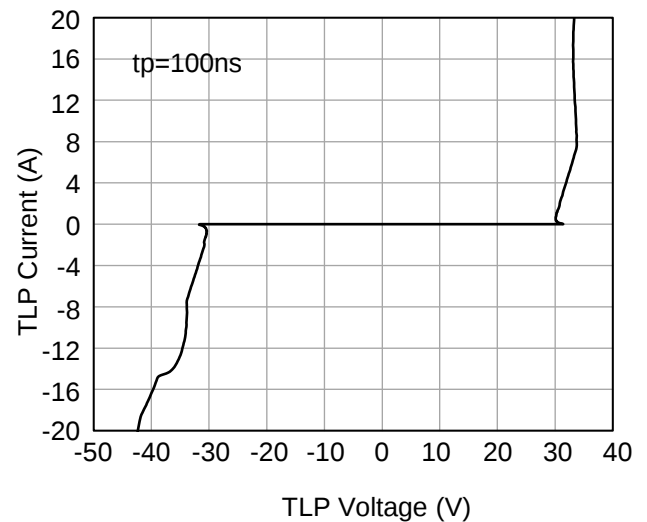
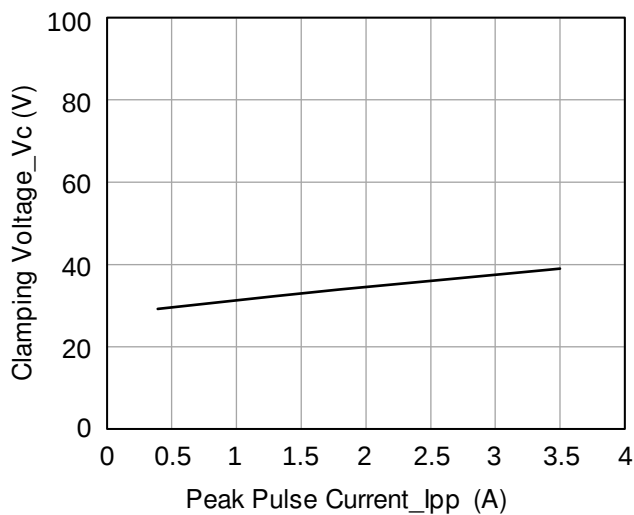
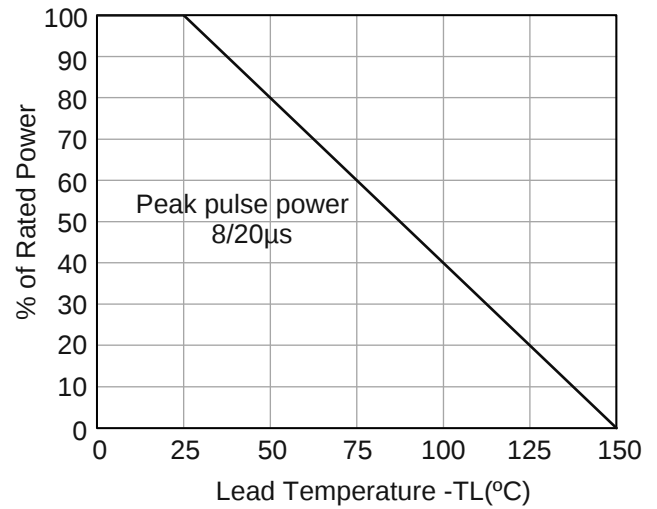
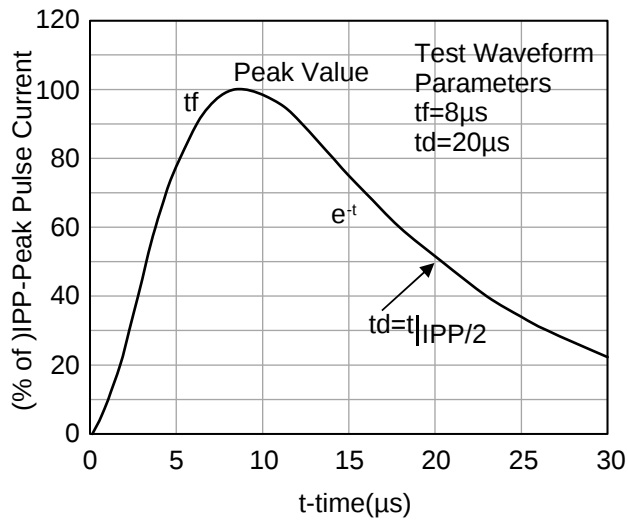
Bi-Directional TVS

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max	Unit
reverse stand-off voltage	VRWM	-	-	24	V
reverse leakage current (VRWM = 24 V)	IRM	-	-	50	nA
breakdown voltage (IT = 1 mA)	VBR	26	-	31	V
Clamping Voltage(Note 1) (IPP = 1A (8 x 20μs pulse)) (IPP = 3A (8 x 20μs pulse))	VC	-	-	35 40	V
Junction Capacitance (VR = 0V, f = 1MHz)	CJ	-	-	15	pF

Note 1.Surge current waveform per Figure 1 according to IEC 61000-4-5.

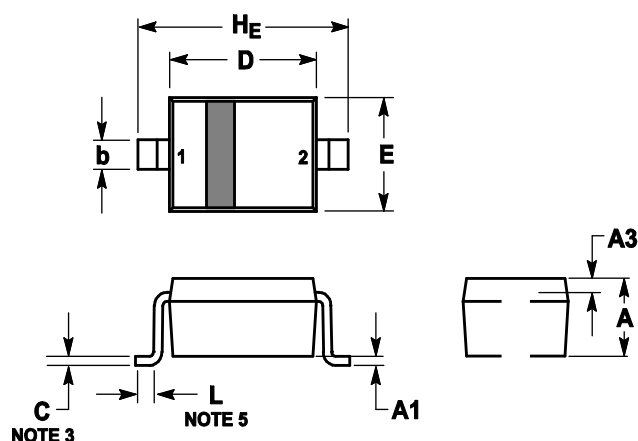
6. ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS

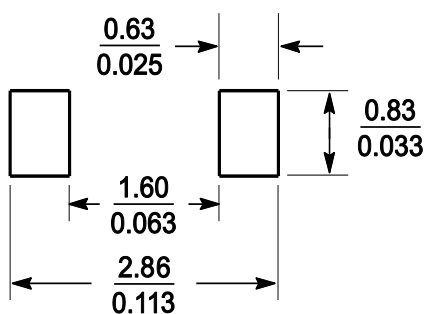
Notes:

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	0.8	0.9	1	0.031	0.035	0.04
A1	0	0.05	0.1	0	0.002	0.004
A3	0.15REF			0.006REF		
b	0.25	0.32	0.4	0.01	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.6	1.7	1.8	0.062	0.066	0.07
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.3	2.5	2.7	0.09	0.098	0.105

8.SOLDERING FOOTPRINT



DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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