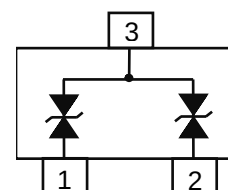
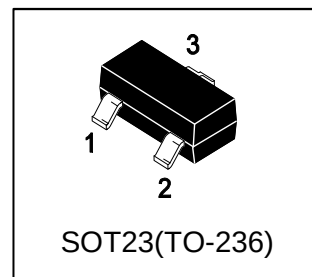


S-LESD23D24CLT1G

ESD Protection Diodes

1. FEATURES

- Low Leakage
- 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-LESD23D24CLT1G	XV	3000/Tape&Reel

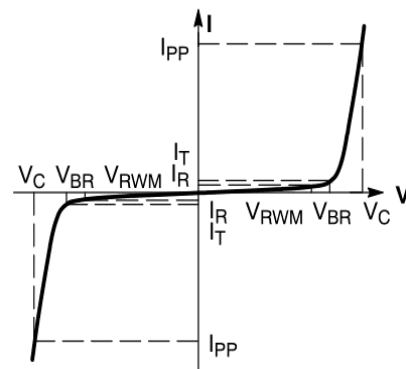
3. MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD) Contact		± 24	kV
Air		± 24	
peak pulse power@8/20 μs (Note 1)	PPP	160	W
peak pulse current @8/20 μs (Note 1)	IPP	3	A
Storage Temperature Range	Tstg	$-55 \sim +150$	$^\circ\text{C}$
Junction 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
Ppk	Peak Power Dissipation
C	Capacitance @ VR = 0 and f = 1.0 MHz

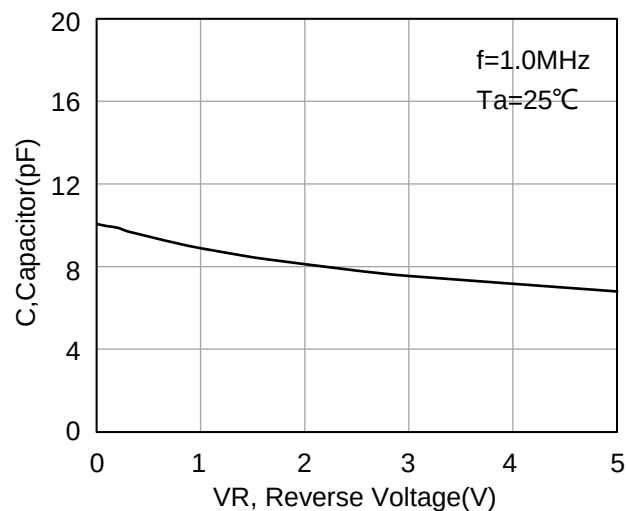
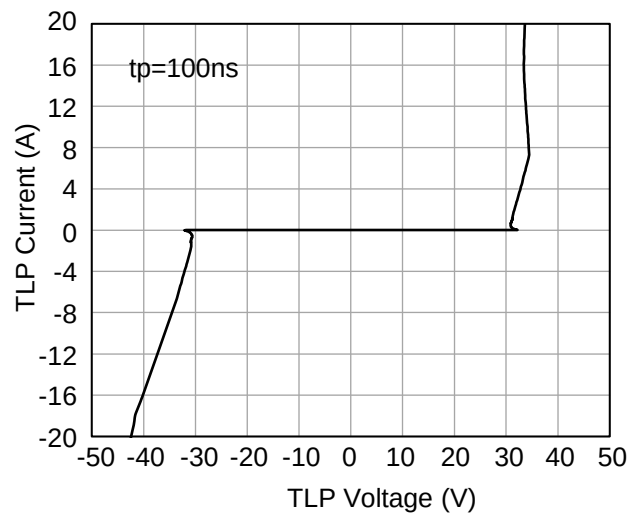
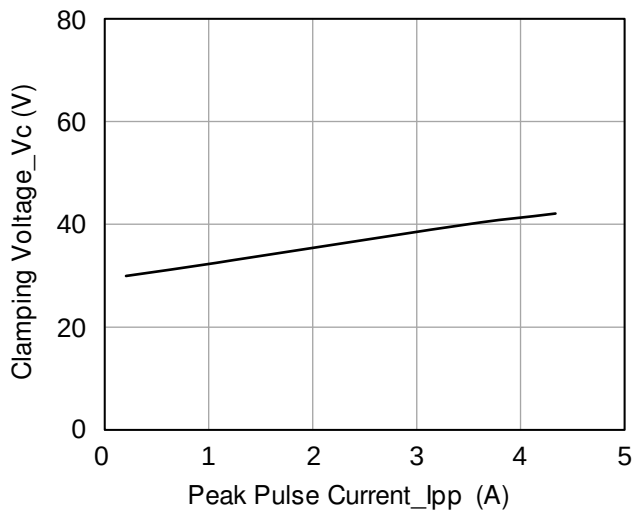
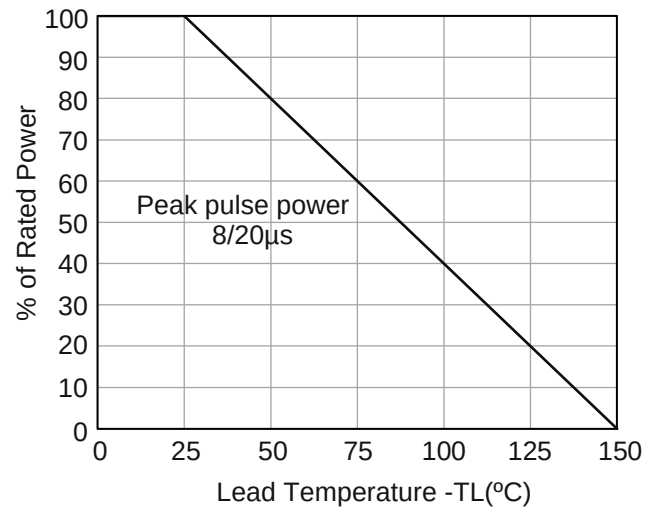
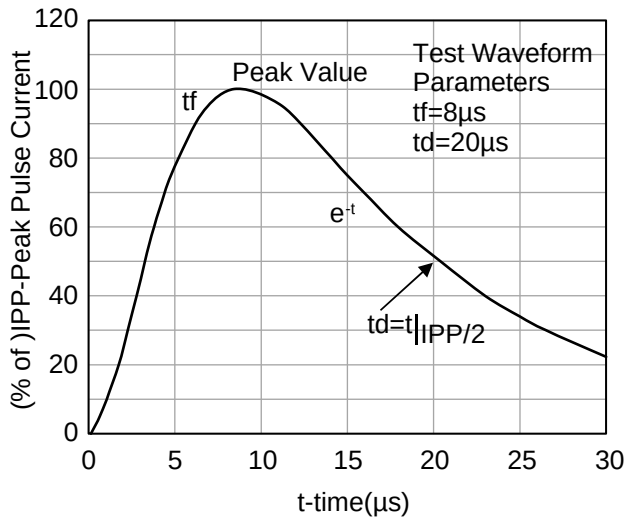


5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

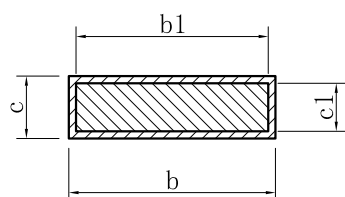
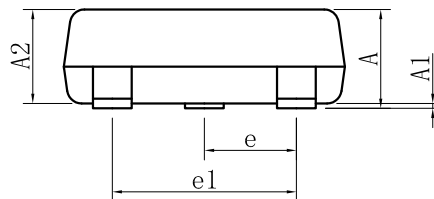
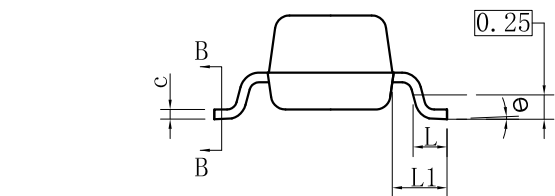
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse stand-off voltage	VRWM				24	V
Breakdown Voltage	VBR	IT = 1mA	26		31	V
Reverse leakage current	IR	VR = 24V			0.1	μA
Clamping Voltage(Note 1)	VC	IPP = 1A, tp=8/20μs IPP = 3A, tp=8/20μs			35 45	V
Junction Capacitance	Cj	VR = 0V, f = 1MHz		10	15	pF

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

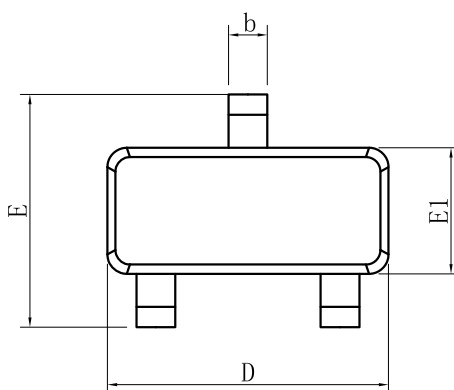
6. ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS



SECTION B-B

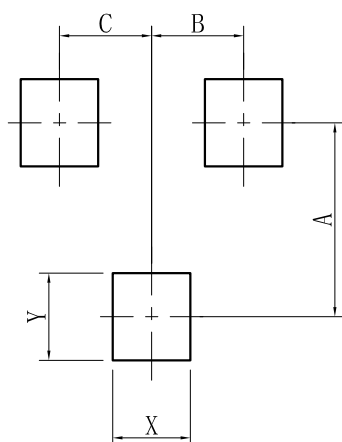


SOT23			
DIM	MIN	NOR	MAX
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.50
b1	0.30	0.40	0.45
c	0.08	-	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	-	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	-	8°
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish $Ra0.4\pm0.2\mu m$
- 2.Bottom package surface finish $Ra0.7\pm0.2\mu m$
- 3.Side package surface finish $Ra0.4\pm0.2\mu m$

8.SOLDERING FOOTPRINT



SOT-23	
DIM	(mm)
X	0.80
Y	0.90
A	2.00
B	0.95
C	0.95

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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