

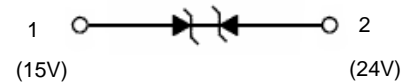
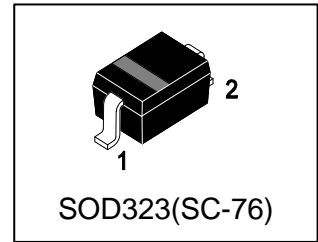
LR1LINT1G

S-LR1LINT1G

ESD Protection Diode

1. FEATURES

- Ultra low leakage current.
- Low clamping voltage.
- ESD protection diode.
- Complies with IEC 61000-4-2 level 4 (ESD).
- 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

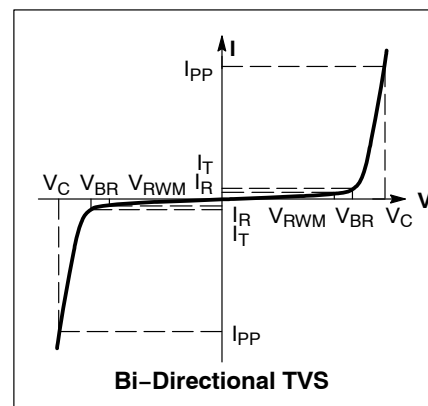
Device	Marking	Shipping
LR1LINT1G	LN	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD) Contact		± 30	kV
Air		± 30	
peak pulse power@8/20 μs	PPP	160	W
peak pulse current @8/20 μs	IPP	3	A
Storage Temperature Range	Tstg	-65 ~ +150	°C
Junction temperature	TJ	150	°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
PPK	Peak Power Dissipation
C	Capacitance @ VR = 0 and f = 1.0 MHz



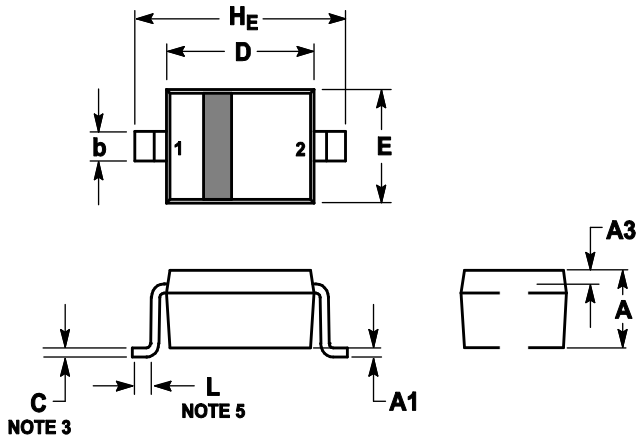
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
reverse stand-off voltage (Pin 1 to 2) (Pin 2 to 1)	VRWM	- -	- -	15 24	V
reverse leakage current (VRWM = 15 V, Pin 1 to 2) (VRWM = 24 V, Pin 2 to 1)	IRM	- -	- -	50 50	nA
breakdown voltage (IR = 5 mA , Pin 1 to 2) (IR = 5 mA , Pin 2 to 1)	VBR	17.1 25.4	18.9 27.8	20.3 30.3	V
diode capacitance (VR = 0 V, f = 1 MHz)	Cd	-	13	17	pF
Clamping Voltage (IPP = 1A (8 x 20µs pulse), Pin 1 to 2) (IPP = 5A (8 x 20µs pulse), Pin 1 to 2) (IPP = 1A (8 x 20µs pulse), Pin 2 to 1) (IPP = 3A (8 x 20µs pulse), Pin 2 to 1)	VC	- - - -	- - - -	25 44 40 70	V
differential resistance (IR = 1 mA, Pin 1 to 2) (IR = 1 mA, Pin 2 to 1)	rdif	- -	- -	225 300	Ω

6. OUTLINE AND DIMENSIONS

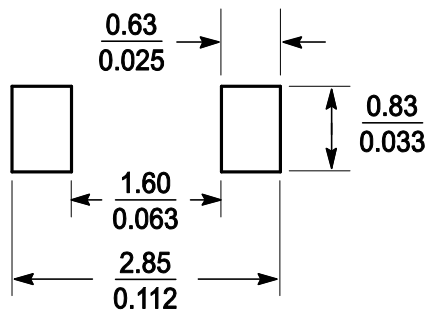
Notes:

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

7. 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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