

Discription

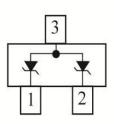
The HESDA25L protects sensitive semiconductor components from damage or upset due to electrostatic discharge (ESD) and other voltage induced transient events. Excellent clamping capability, low leakage, low capacitance, and fast response time provide best in class protection on designs that are exposed to ESD.

3 2 2 SOT-23

It gives designer the flexibility to protect 2 unidirectional line in applications where arrays are not practical.

Features

- ★ Transient protection for high-speed data lines IEC 61000-4-2(ESD) ±30kV (Contact) ±30kV (Air) IEC 61000-4-4(EFT) 40A (5/50 ns)
- ★ Peak power dissipation: 350W (8/20us)
- ★ Working voltages: 24V
- ★ Protects one bidirectional line or two unidirectional lines
- ★ Low clamping voltage
- ★ Low leakage current



Circuit Diagram

Orderingin formation

Product ID	Pack	Qty(PCS)
HESDA25L	SOT-23	3000

Absolute Ratings(Tamb = 25°C)

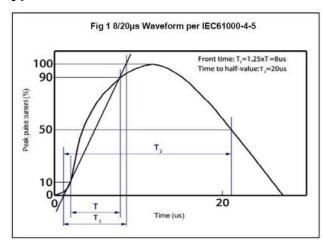
Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _P = 8/20 μ s)	350	W
T _L	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +155	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
T _j	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	±30 ±30	KV
	IEC61000-4-4 (EFT)	40	Α

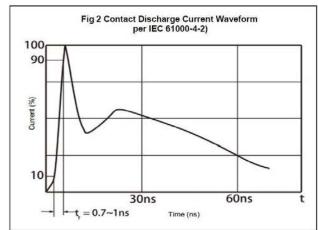


Electrical Characteristics

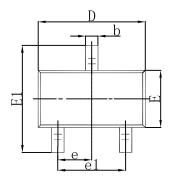
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				24	V
V _{BR}	Reverse Breakdown Voltage	Iτ = 1mA	26.7			V
I _R	Reverse Leakage Current	$V_{\text{RWM}} = 24V$			1	μΑ
Vc	Clamping Voltage	$I_{RWM} = 1A, t_p = 8/20 \mu s$			43	V
		$I_{RWM} = 7A, t_p = 8/20 \mu s$			52	V
С	Junction Capacitance	$V_R = 0V$, $f = 1MHz$		40	60	pF

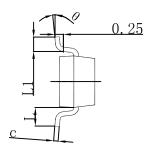
Typical Characteristics

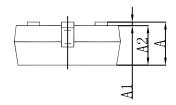




SOT-23 Package Outline Dimensions

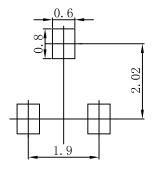






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		50 TYP 0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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