

Discription

The HESDNC36VU1CL-A 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. It gives designer the flexibility to protect one unidirectional line in applications where arrays are not practical.

Features

- ★ Small Body Outline Dimensions
- ★ Low Body Height
- ★ Stand-off Voltage: 36V

Ordering information

- ★ Peak Power up to 300 Watts @ 8 x 20 us Pulse
- ★ Low Leakage
- ★ Response Time is Typically < 1 ns
- ★ ESD Rating of Class 3 per Human Body Model
- ★ IEC61000-4-2 Level 4 ESD Protection
- ★ IEC61000-4-4 Level 4 EFT Protection
- ★ We declare that the material of product compliance with RoHS reqirements.

1 2





Circuit	Diagram

Product ID	Pack	Qty(PCS)		
HESDNC36VU1CL-A	SOD-523	3000		

Absolute Ratings (T_{amb}=25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _p = 8/20µs)	450	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	土15 土8	ΚV

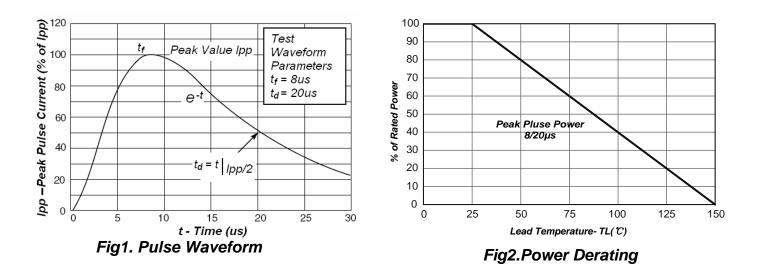


Device	V _{RWM} (V)	I _R (uA) @ V _{RWM}	V _{BR} (V)@ I _T (Note 1)	Ι _τ	V _C (V) @ Max I _{PP} *	І _{РР} (А)*	Р _{РК} (W)*	C (pF)
	Max	Max	Min	mA	Max	Max	Max	Тур
HESDNC36VUCL-A	36	1.0	38	1.0	63	7	450	30

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

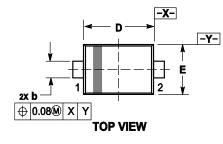
*Surge current waveform per Figure 1.

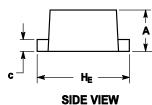
1. V_{BR} is measured with a pluse test current I_T at an ambient temperature of $25 \,^\circ C$.

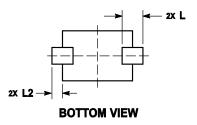




OUTLINE AND DIMENSIONS







Notes:

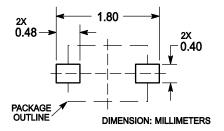
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS.

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.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	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
С	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
Е	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

SOLDERING FOOTPRINT





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