

#### Discription

The HCEZ24V,L3F 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: 24V
- ★ Peak Power up to 330 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 requirements.

## **Orderingin formation**

Product ID	Pack	Qty(PCS)
HCEZ24V,L3F	SOD-523	3000

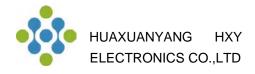
## Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P <sub>PP</sub>	Peak Pulse Power (t <sub>p</sub> = 8/20µs)	330	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>op</sub>	Operating Temperature Range	-40 to +125	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge		ΚV

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SOD-523

Circuit Diagram



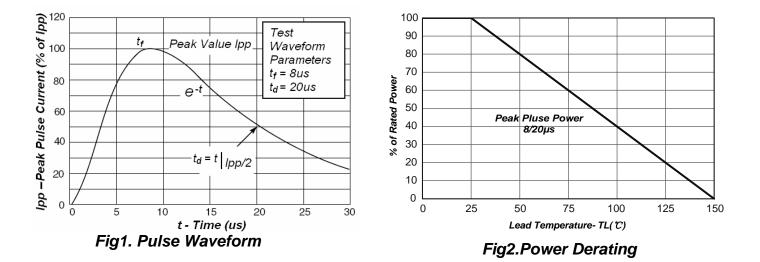
Device	V <sub>RWM</sub> (V)	l <sub>R</sub> (uA) @V <sub>RWM</sub>	V <sub>BR</sub> (V)@ I <sub>T</sub> (Note 1)	Ι <sub>Τ</sub>	V <sub>C</sub> (V) @ Max I <sub>PP</sub> *	І <sub>РР</sub> (А)*	Р <sub>РК</sub> (W)*	C (pF)
	Max	Max	Min	mA	Max	Max	Мах	Тур
HCEZ24V,L3F	24	1.0	26	1.0	55	6	330	25

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

\*Surge current waveform per Figure 1.

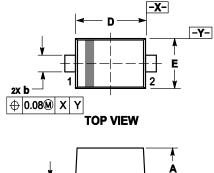
1.  $V_{BR}$  is measured with a pluse test current  $I_T$  at an ambient temperature of 25  $^\circ C$ .

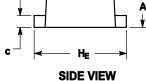
# **Typical Characteristics**

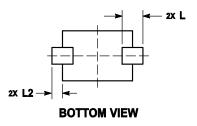




## **Outline And Dimensions**







Notes:

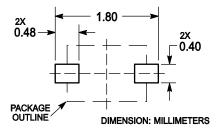
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS.

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 <sub>E</sub>	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF			0.012 REF		
L <sub>2</sub>	0.15	0.20	0.25	0.006	0.008	0.010

# **Soledering Footprint**





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