



Discription

The CUZ24V,H3F 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.

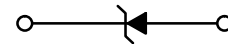
It gives designer the flexibility to protect one unidirectional line in applications where arrays are not practical.



SOD-323
(SC-76(SOD-323))

Features

- ★ Small Body Outline Dimensions
- ★ 250 Watts peak pulse power ($t_p = 8/20\mu s$)
- ★ Transient protection for data lines to
IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
IEC 61000-4-4 (EFT) 40A (5/50ns)
IEC 61000-4-5 (Lightning) 24A (8/20 μs)
- ★ Small package for use in portable electronics
- ★ Suitable replacement for MLV's in ESD protection applications
- ★ Protects one I/O or power line
- ★ Low clamping voltage
- ★ Working voltages: 24V
- ★ Low leakage current
- ★ Solid-state silicon-avalanche technology
- ★ We declare that the material of product compliance with RoHS requirements.



Circuit Diagram

Ordering information

Product ID	Pack	Qty(PCS)
CUZ24V,H3F	SOD-323(SC-76(SOD-323))	3000

Absolute Ratings($T_{amb} = 25^{\circ}C$)

Symbol	Parameter	Value	Units
P_{PK}	Peak Pulse Power ($t_p = 8/20\mu s$)	250	W
V_{ESD}	ESD Voltage(HBM Waveform per IEC 61000-4-2)	30	kV
T_L	Maximum lead temperature for soldering during 10s	260	$^{\circ}C$
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}C$
T_J	Maximum junction temperature	-55 to +125	$^{\circ}C$



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

Device	V_{RWM} (V)	I_R (μ A) @ $V_{RWM}=5V$	V_{BR} (V)@ $I_t=1mA$	V_C (V) @ $I_{PP}=5A$ $t_p=8/20\mu s$	I_{PP} (A) $t_p=8/20\mu s$	C (pF)
	Max	Max	Min	Max	Max	Typ
CUZ24V,H3F	24.0	1.0	26	50	6	25

Typical Characteristics

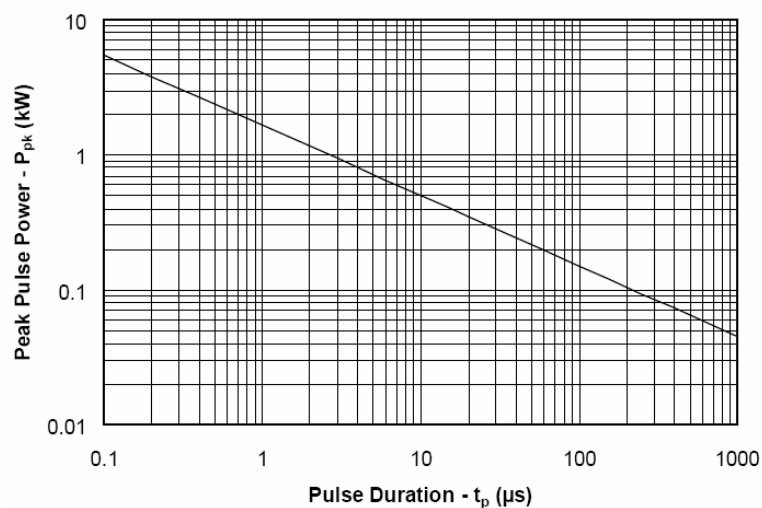


Fig.1 Non-Repetitive Peak Pulse Power vs. Pulse Time

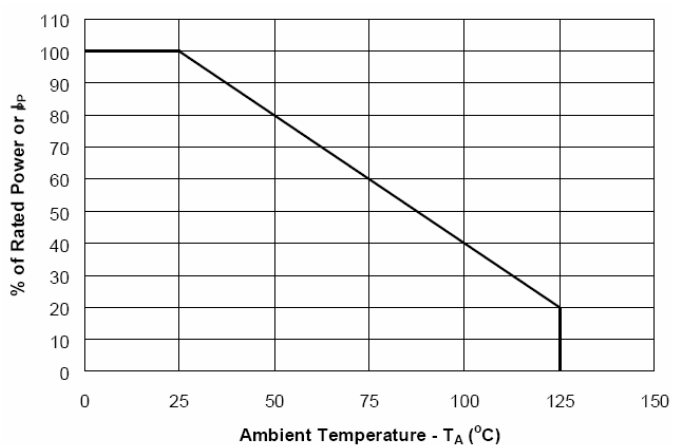


Fig.2 Power Derating Curve

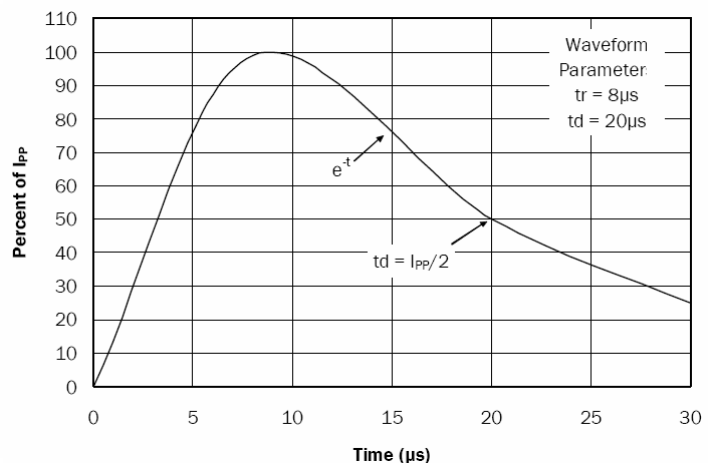


Fig.3 Waveform



Outline And Dimensions

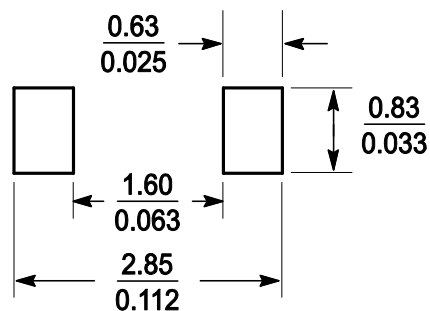
Notes:

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

Soledering Footprint





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