

Discription

The HAZ2225-01L.R7G 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 bi-directional line in applications where arrays are not practical.



SOD-323

Features

- ★ Small Body Outline Dimensions
- ★ Low Body Height
- ★ Peak Power up to 100 Watts @ 8 x 20 _s Pulse
- ★ Low Leakage current
- ★ Response Time is Typically < 1 ns
- ★ ESD Rating of Class 3 (> 16 kV) per Human Body Model
- ★ IEC61000-4-2 Level 4 ESD Protection
- ★ IEC61000-4-4 Level 4 EFT Protection

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Circuit Diagram

Orderingin formation

Product ID	Pack	Qty(PCS)
HAZ2225-01L.R7G	SOD-323	3000

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _p = 8/20 μ s)	100	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
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	±15 ±8	KV
	IEC61000-4-4 (EFT)	40	Α
	ESD Voltage Per Human Body Model	16	KV



Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.VF = 0.9V at IF = 10mA

Device	V _{RWM} (V)	I _R (uA) @ V _{RWM}	V _{BR} (V)@ I _T (Note 1)	Ι _τ	V _c (V) @ I _{PP} =5 A*	V _C (V) @ Max I _{PP} *	I _{PP} (A)*	P _{PK} (W)*	C (pF)
	Max	Max	Min	mA	Тур	Max	Max	Max	Тур
HAZ2225-01L.R7G	5.0	1	5.6	1.0	8	9	11	100	20

^{*}Surge current waveform per Figure 1.

Typical Characteristics

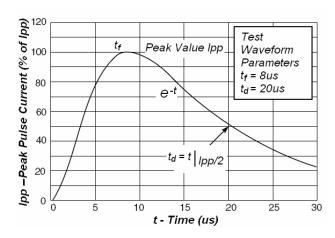


Fig1. Pulse Waveform

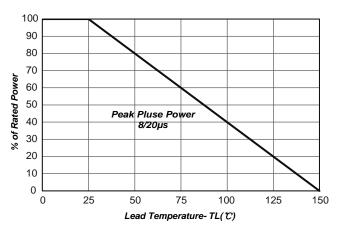
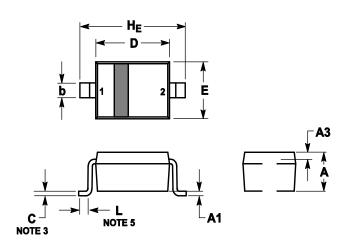


Fig2.Power Derating

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



Outline And Dimensions

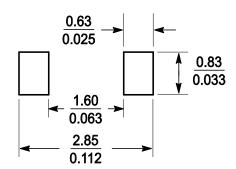


Notes:

- 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	0.8	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
С	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
Е	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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