

HAOZ8251ADI-05 ESD PROTECTION DIODE

Discription

The HAOZ8251ADI-05 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.

Features

- ★ Small Body Outline Dimensions: 0.61 mm x 0.31 mm
- ★ Low Body Height: 0.28 mm
- ★ Low Leakage
- ★ Response Time is Typically < 1 ns
- ★ ESD Rating of Class 3 per Human Body Model
- ★ IEC61000-4-2 Level 4 ESD Protection
- ★ These are Pb-Free Devices
- ★ We declare that the material of product compliance with RoHS requirements and Halogen Free.

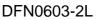
Orderingin formation

Product ID	Pack	Qty(PCS)	
HAOZ8251ADI-05	DFN0603-2L	15000	

Absolute Ratings(Tamb = 25°C)

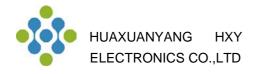
Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _p = 8/20µs)	90	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
Tj	Maximum junction temperature		°C
	IEC61000-4-2 (ESD) air discharge contact discharge		ΚV







Circuit Diagram



Electrical Characteristics

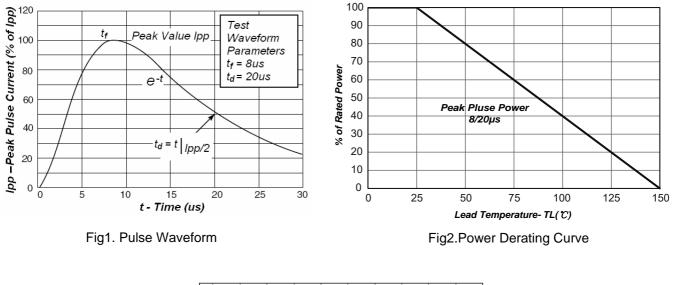
	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)		Гт	V _C (V) @ I _{PP} = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	I_{РР}(А) (Note 3)	Р_{РК}(W) (Note 3)	C (pF)
Device	Max	Max	Min	Max	mA	Max	Max	Max	Max	Тур
HAOZ8251ADI-05	3.3	0.1	5.0	6.5	1.0	7	10	5	90	12

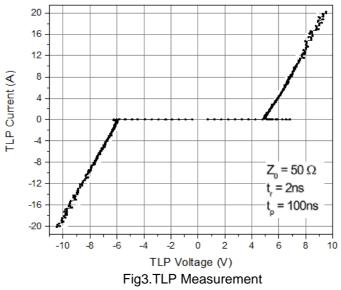
Other voltage available upon request.

2. V_{BR} is measured with a pulse test current IT at an ambient temperature of $25\,^\circ\!\!\mathbb{C}$

3. Surge current waveform per Figure 1.

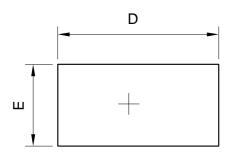
Typical Characteristics

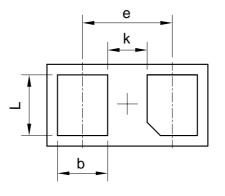






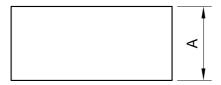
Outline And Dimensions





BOTTOM VVIEW

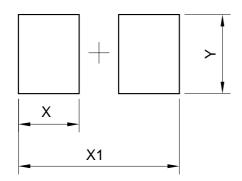
DFN0603-2L					
Dim	Min	Max			
D	0.58	0.61	0.64		
E	0.28	0.31	0.34		
е	-	0.34	-		
L	0.20	0.23	0.26		
b	0.16	0.19	0.22		
А	0.25	0.28	0.31		
k	0.12	0.15	0.18		
All Dimensions in mm					



SSIDE VIEW

TOP VIEW

Soledering Footprint



DFN0603-2L		
DIM (mm)		
Х	0.23	
X1	0.61	
Y	0.30	



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