

## Discription

The HAZ5725-01F 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	2
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.	DFN1006-2L
Features ★ Low Leakage ★ Response Time is Typically < 1 ns ★ ESD Rating of Class 2 per Human Body, Madel	1 00 2

- ★ ESD Rating of Class 3 per Human Body Model
- ★ IEC61000-4-2 Level 4 ESD Protection
- ★ These are Pb-Free Devices
- $\star$  We declare that the material of product compliance with RoHS requirements and Halogen Free.

## **Orderingin formation**

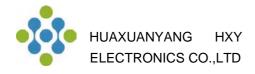
Product ID	Pack	Qty(PCS)
HAZ5725-01F	DFN1006-2L	10000

### Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units		
P <sub>PP</sub>	Peak Pulse Power (t <sub>p</sub> = 8/20µs)	66	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 discha		±25	ΚV	
	contact discha	arge	±20	1.1	



**Circuit Diagram** 



#### **Electrical Characteristics**

	V <sub>RWM</sub> (V)	I <sub>R1</sub> (μΑ) @ V <sub>RWM</sub>	I <sub>R2</sub> (μΑ) @ V <sub>R</sub> =3.5V	V <sub>BR</sub> (V (Not		ե	V <sub>C</sub> (V) @ I <sub>PP</sub> = 1 A (Note 3)	V <sub>C</sub> (V) @MAX I <sub>PP</sub> (Note 3)	Ipp(A) (Note 3)	<b>Р<sub>РК</sub>(W)</b> (Note 3)	C (pF)
Device	Max	Max	Мах	Min	Мах	mA	Мах	Max	Max	Max	Тур
HAZ5725-01F	5.0	0.5	0.3	5.6	8.0	1.0	8.5	12	5.5	66	10

Other voltage available upon request.

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

3. Surge current waveform per Figure 3.

# **Typical Characteristics**

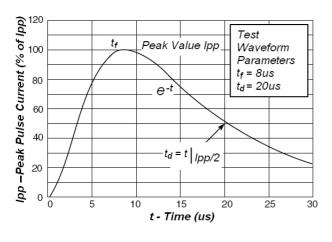
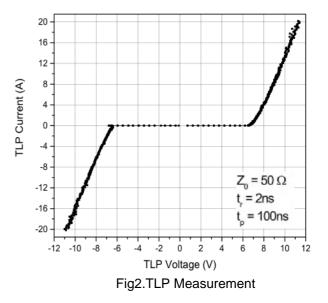
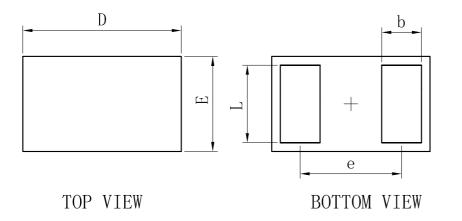


Fig1. Pulse Waveform

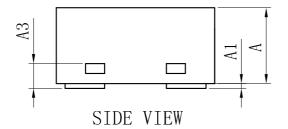




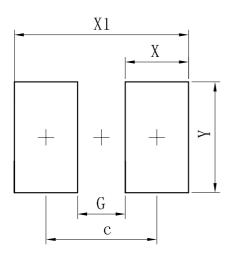
### **Outline And Dimensions**



DFN1006-2L					
Dim	Min	Тур	Max		
D	0.95	1.00	1.05		
Е	0.55	0.60	0.65		
е	-	0.64	-		
L	0.44	0.49	0.54		
b	0.20	0.25	0.30		
A	0.43	0.48	0.53		
A1	0 – 0.05				
A3	A3 0. 127REF.				
All Dimensions in mm					



# **Soledering Footprint**



Dimensions	(mm)
С	0.70
G	0.30
Х	0.40
X1	1.10
Y	0.70



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