

#### Discription

The HAZ5325-01F 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 protection on designs that are exposed to ESD. It gives designer the flexibility to protect one bi-directional



DFN1006-2L

Features

 ★ Transient protection for high-speed data lines IEC 61000-4-2(ESD) ±8kV (Contact) ±15kV (Air)
 IEC 61000-4-4(EFT) 40A (5/50 ns)

line in applications where arrays are not practical.

- Peak power dissipation: 100W (8/20us)
- ★ Working voltages : 5V
- ★ Ultra-small package (1.0mmx0.6mmx0.5mm)
- ★ Protects one I/0 line
- ★ Low clamping voltage
- ★ Low leakage current



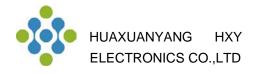
### Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P <sub>PP</sub>	Peak Pulse Power ( $t_p = 8/20 \ \mu \ s$ )	100	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	-55 to +150	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharg contact discharg		KV
	IEC61000-4-4 (EFT)	40	А

**-O** 2

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Circuit Diagram



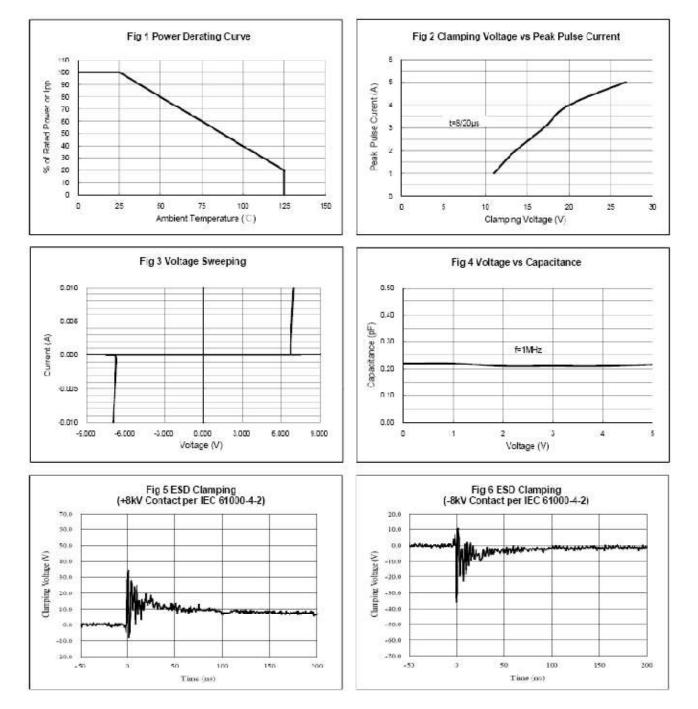
## Electrical Characteristics Ratings at 25°C

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				5.0	V
Vbr	Reverse Breakdown Voltage	l⊤ = 1mA	6.0			V
IR	Reverse Leakage Current	$V_{RWM} = 5.0V$			0.1	μA
Vc	Clamping Voltage	$I_{RWM} = 1A, t_{P} = 8/20 \mu s$			13	V
		$I_{RWM} = 4A, t_{P} = 8/20 \mu s$			25	V
CJ	Junction Capacitance	$V_R = 0V, f = 1MHz$		0.5		pF



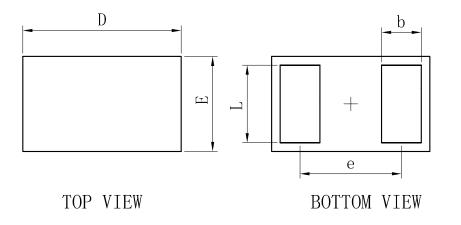
HAZ5325-01F ESD PROTECTION DIODE

## **Typical Characteristics**

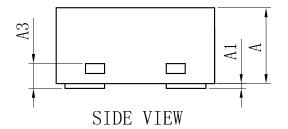




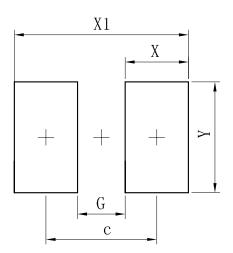
## **Outline And Dimensions**



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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