

Discription

The HAZ9565-01F 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

line in applications where arrays are not practical.

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)
- ★ 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

Orderingin formation



DFN1006-2L

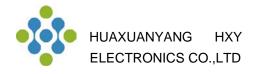
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Circuit Diagram

5			
Product ID	Pack	Qty(PCS)	
HAZ9565-01F	DFN1006-2L	10000	

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	100	W
TL	Maximum lead temperature for soldering during 10s		°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Temperature Range	-55 to +150	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	土15 土8	KV
	IEC61000-4-4 (EFT)	40	А



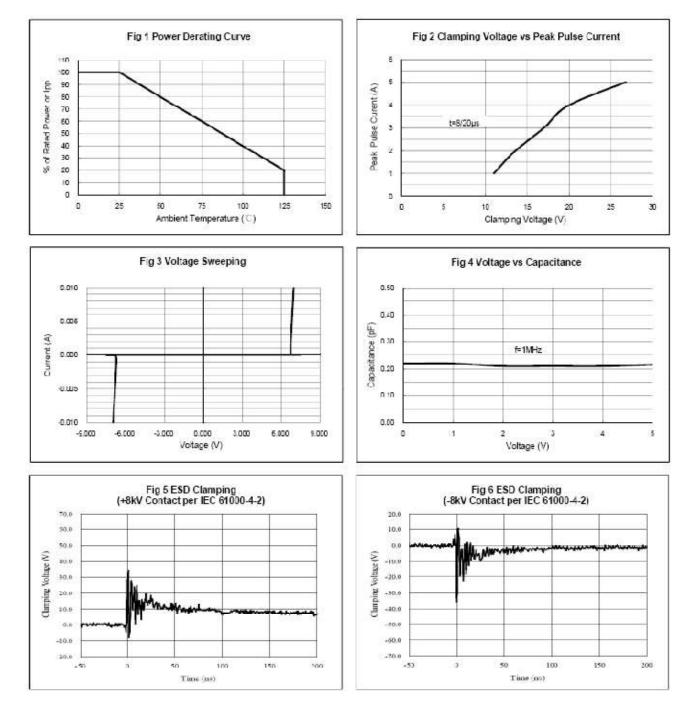
Electrical Characteristics Ratings at 25°C

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
vc	Clamping Voltage	$I_{RWM} = 4A, t_{P} = 8/20 \mu s$			25	V
CJ	Junction Capacitance	$V_R = 0V, f = 1MHz$		0.5		pF



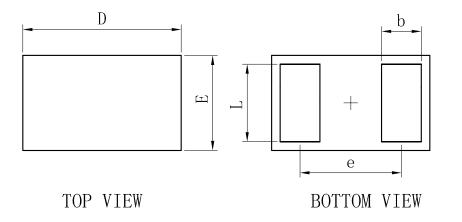
HAZ9565-01F ESD PROTECTION DIODE

Typical Characteristics

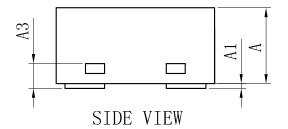




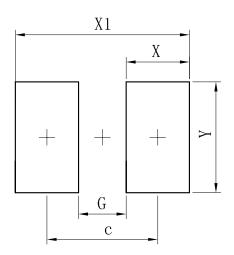
Outline And Dimensions



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	
А	0.43	0.48	0.53	
A1	0 – 0.			
A3	0. 127REF.			
All Dimensions in mm				



Soledering Footprint



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



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