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Discription

The HAZ9712-01F 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



DFN1610-2L

Circuit Diagram

1 0-

Features

 ★ Transient protection for high-speed data lines IEC 61000-4-2(ESD) ±30kV (Contact) ±30kV (Air) IEC 61000-4-4(EFT) 40A (5/50 ns)

line in applications where arrays are not practical.

- ★ Peak power dissipation: 2275W (8/20us)
- ★ Working voltages : 12V
- ★ Ultra-small package (1.6mmx1.0mmx0.5mm)
- ★ Protects one I/0 line
- ★ Low clamping voltage
- ★ Low leakage current

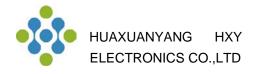
Orderingin formation



Product ID	Pack	Qty(PCS)
HAZ9712-01F	DFN1610-2L	3000

Absolute Ratings(Tamb = 25°C)

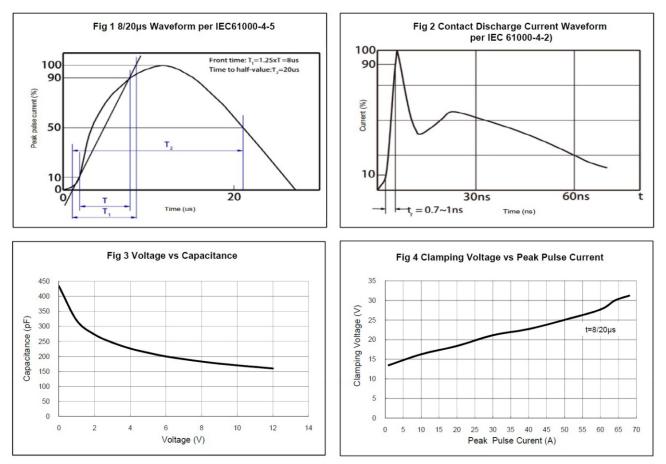
Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	225	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Temperature Range	-55 to +150	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air dischar contact dischar		KV
	IEC61000-4-4 (EFT)	40	Α



Electrical Characteristics Ratings at 25°C

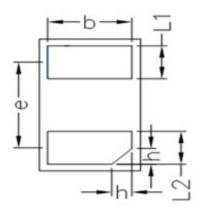
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				12	V
Vbr	Reverse Breakdown Voltage	l⊤ = 1mA	12.7			V
IR	Reverse Leakage Current	$V_{RWM} = 12V$			100	nA
Vc	Clamping Voltage	I _{RWM} = 25A, t _P = 8/20μs			25	V
		I _{RWM} = 65Α, t _P = 8/20μs			35	V
CJ	Junction Capacitance	$V_R = 0V$, f = 1MHz		500	650	pF

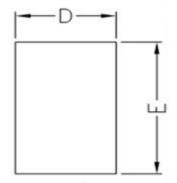
Typical Characteristics

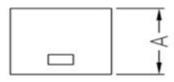




Outline And Dimensions







COMMON DIMENSION(mm)				
REF	Min	Nom	Max	
D	0.95	1.00	1.05	
E	1.55	1.60	1.65	
L1	0.35	0.40	0.45	
L2	0.35	0.40	0.45	
b	0.75	0.80	0.85	
е	1.09BSC			
Α	0.45	0.50	0.55	
h	0.15	0.20	0.25	



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