Discription

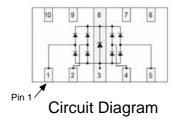
The HESD8704MUTAG is a 4-channel ultra low capacitance rail clam ESD protection diodes array . Each channel consists of a pair of diodes that steer positive or negative ESD current to either the positive or negative rail . A zener diode is integrated in to the array between the positive and negative supply rails. In the typical applications, the negative rail pin (assigned as GND) is connected with system ground . The Positive ESD current is steered to the ground through an ESD diode and Zener diode and the positive ESD voltage is clamped to the zener voltage.



DFN2510-10L

Features

- ★ 4 channels of ESD protection;
- ★ Provides ESD protection to IEC61000-4-2 level 4
 - ±15kV air discharge
 - ±10kV contact discharge;
- ★ Channel I/O to GND capacitance: 0.55pF (Max)
- ★ Channel I/O to I/O capacitance: 0.6pF (Max)
- ★ Low clamping voltage;
- ★ Low operating voltage;
- ★ Improved zener structure;
- ★ Optimized package for easy high speed data lines PCB layout;
- ★ RoHS compliant and Halogen Free.



Orderingin formation

Product ID	Pack	Qty(PCS)
HESD8704MUTAG	DFN2510-10L	3000

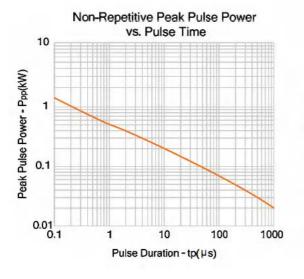
Absolute Ratings(Tamb = 25°C)

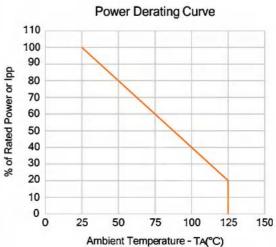
Symbol	Parameter	Value	Units	
P _{PP}	Peak Pulse Power (t _P = 8/20μs)		70	W
I _{PP}	Peak Pulse Current(8/20us)		4	Α
T _L	Maximum lead temperature for soldering during 10s		260	°C
T _{stg}	Storage Temperature Range		-55 to +150	°C
T _{op}	Operating Temperature Range		-40 to +125	°C
Tj	Maximum junction temperature		150	°C
	IEC61000-4-2 (ESD) air d contact di	ischarge scharge	±15 ±10	KV

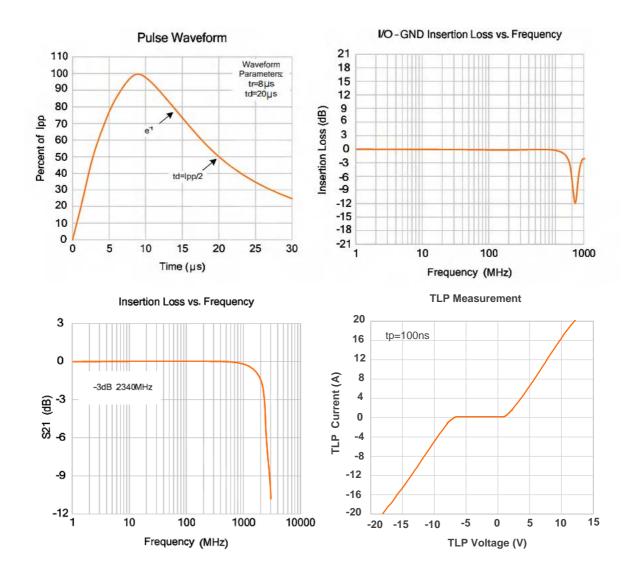
Electrical Characteristics (Ta= 25℃)

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				3.3	V
V _{BR}	Reverse Breakdown Voltage	Iτ = 1mA	5.6			V
l _R	Reverse Leakage Current	V _{RWM} = 5.0V			1.0	μΑ
Vc	Clamping Voltage	$I_{RWM} = 1A, t_p = 8/20 \mu s$		7		V
VC	Clamping Voltage	$I_{RWM} = 4A, t_p = 8/20 \mu s$		8	20	V
CJ	Junction Capacitance	V _R = 0V, f = 1MHz Any I/O pin to GND		0.5	0.6	pF
С	Junction Capacitance	$V_R = 0V$, $f = 1MHz$ Any I/O pin to I/O		0.3	0.4	pF

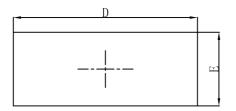
Typical Characteristics

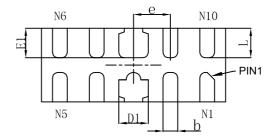




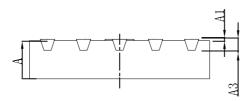


Outline And Dimensions





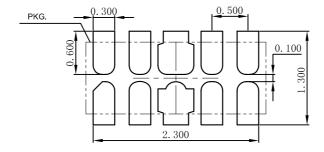
Bottom View



Side View

Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
Α	0.450	0.550	0.017	0.022	
A1	0.000	0.050	0.000	0.002	
A3	0.152REF.		0.006REF.		
D	2.450	2.550	0.096	0.100	
Е	0.950	1.050	0.037	0.041	
D1	0.350	0.450	0.014	0.018	
E1	0.350	0.450	0.014	0.018	
b	0.150	0.250	0.006	0.010	
е	0.500TYP.		0.020TYP.		
L					

Soledering Footprint





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