

Discription

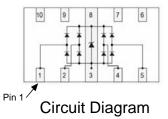
The HSP0524PUTG is a 4-channel ultra low capacitance rail clam ESD protection diodes array . Each channel consists of a pair of diodes that steer positive or negative ESD current to either the positive or negative rail . A zener diode is integrated in to the array between the positive and negative supply 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.



- ★ 4 channels of ESD protection;
- ★ Provides ESD protection to IEC61000-4-2 level 4
 - ±17kV air discharge
- ±12kV contact discharge;
- ★ Ultra-low Capacitance:0.6pF(Typical)
- ★ Low clamping voltage;
- ★ Low operating voltage;
- ★ Solid-state silicon technology
- ★ Protecting four I/O line
- ★ RoHS compliant and Halogen Free.



DFN2510-10L



Orderingin formation

Product ID	Pack	Qty(PCS)
HSP0524PUTG	DFN2510-10L	3000

Absolute Ratings(Tamb = 25°C)

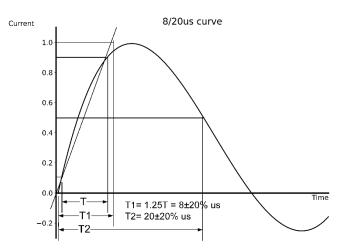
Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _p = 8/20µs)	60	W
IPP	Peak Pulse Current(8/20us)	4.5	А
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	土17 土12	ΚV



Electrical Characteristics (Ta= 25°C)

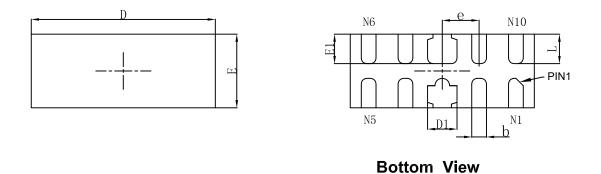
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				5.0	V
V _{BR}	Reverse Breakdown Voltage	l⊤ = 1mA	6.0			V
IR	Reverse Leakage Current	V _{RWM} = 5.0V			1.0	μA
Vc	Clamping Voltage	$I_{RWM} = 1A, t_p = 8/20 \mu s$		8.5		V
VC	Clamping Voltage	$I_{RWM} = 3A, t_p = 8/20 \mu s$		12		V
C	Junction Capacitance	$V_R = 0V$, f = 1MHz Any I/O pin to GND		0.6		pF
CJ	Junction Capacitance	$V_R = 0V$, f = 1MHz Any I/O pin to I/O		0.3		pF

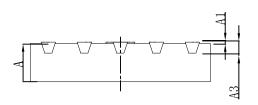
Typical Characteristics





Outline And Dimensions

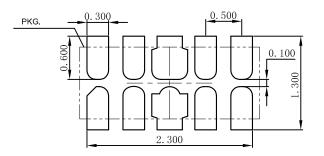




Side View

Symbol	Dimensions In Millimeters		Dimensions In Inches			
	Min.	Max.	Min.	Max.		
А	0.450	0.550	0.017	0.022		
A1	0.000	0.050	0.000	0.002		
A3	0.152	0.152REF. 0.006REF.		0.152REF.		REF.
D	2.450	2.550	0.096	0.100		
E	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.			
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Soledering Footprint





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