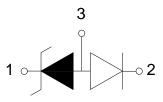


Discription

The HGL05T-HE3-18 is an ultra-low capacitance TVS (Transient Voltage Suppressor) array designed to protect high speed data interfaces. It has been specifically desianed to protect ensitive electronic components which are connected to data and transmission lines from over-stress caused by ESD(Electrostatic Discharge).







Features

- ★ Transient protection for high-speed data lines IEC 61000-4-2(ESD) ±10kV (Contact) ±15kV (Air)
 IEC 61000-4-4(EFT) 40A (5/50 ns)
- ★ Peak power dissipation: 300W (8/20us)
- ★ Working voltages : 5V
- ★ Protecting one unidirectional lines
- ★ Low clamping voltage
- ★ Low leakage current

Orderingin formation

Product ID	Pack	Qty(PCS)
HGL05T-HE3-18	SOT-23	3000

Absolute Ratings(Tamb = 25°C)

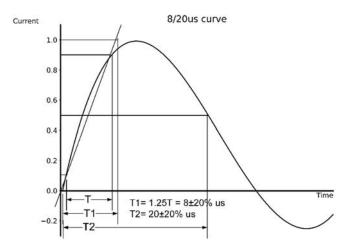
Symbol	Parameter	Value	Units	
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	300	W	
TL	Maximum lead temperature for soldering during 10s	260	°C	
T _{stg}	Storage Temperature Range	-55 to +155	°C	
T _{op}	Operating Temperature Range		-40 to +125	°C
Tj	Maximum junction temperature		150	°C
		[·] discharge discharge	±15 ±10	KV
	IEC61000-4-4 (EFT)			А



Electrical Characteristics

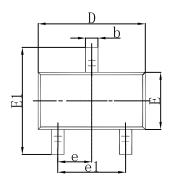
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				5	V
Vbr	Reverse Breakdown Voltage	l⊤ = 1mA	6			V
IR	Reverse Leakage Current	$V_{RWM} = 5V$			1	μA
Vc	Clamping Voltage	I _{RWM} = 1A, t _P = 8/20μs		9.5		V
vc	Clamping Voltage	Iким = 15А, t _P = 8/20µs		12		V
CJ	Junction Capacitance	$V_R = 0V, f = 1MHz$		1.5		pF

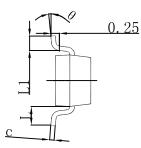
Typical Characteristics

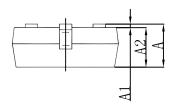




SOT-23 Package Outline Dimensions

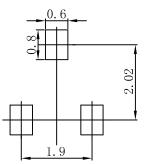






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



Note: 1.Controlling dimension: in millimeters.

2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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