

Discription

The HESD7361XV2T1G 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 unidirectional

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: 60W (8/20us)
- ★ Working voltages : 5V
- ★ Protects one Vcc or data line
- ★ Low clamping voltage
- ★ Low leakage current

Orderingin formation



SOD-523

1 0 2

Circuit Diagram

Product ID	Pack	Qty(PCS)
HESD7361XV2T1G	SOD-523	3000

Absolute Ratings(Tamb = 25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	60	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
	IEC61000-4-2 (ESD) air discharg contact discharg		KV
	IEC61000-4-4 (EFT)	40	А



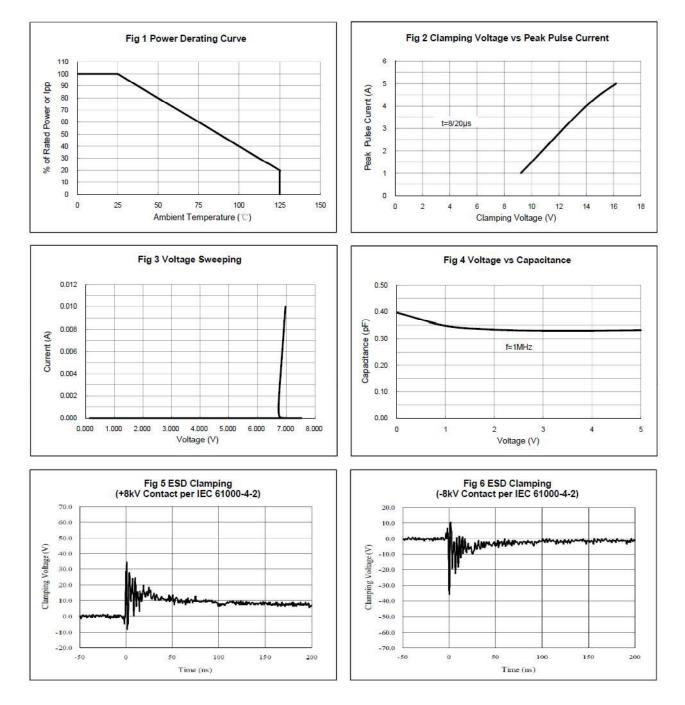
Electrical Characteristics

Symbol	Parameter	Test Condition	Condition Min		Max	Units
Vrwm	Reverse Working Voltage				5.0	V
Vbr	Reverse Breakdown Voltage	I⊤ = 1mA	6.0			V
IR	Reverse Leakage Current	$V_{RWM} = 5.0V$			100	nA
Vc	Clamping Voltage	$I_{RWM} = 1A, t_{P} = 8/20 \mu s$			10	V
		I _{RWM} = 4A, t _P = 8/20µs			15	V
CJ	Junction Capacitance	$V_R = 0V, f = 1MHz$		0.4	0.7	pF



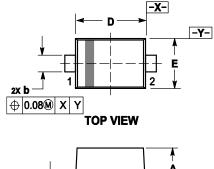
HESD7361XV2T1G ESD PROTECTION DIODE

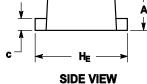
Typical Characteristics

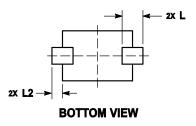




Outline And Dimensions







Notes:

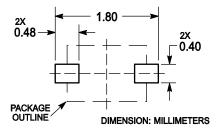
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS.

3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.50	0.60	0.70	0.020	0.024	0.028
b	0.25	0.30	0.35	0.010	0.012	0.014
С	0.07	0.14	0.20	0.003	0.006	800.0
D	1.10	1.20	1.30	0.043	0.047	0.051
Е	0.70	0.80	0.90	0.028	0.031	0.035
H _E	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF		0.012 REF		F	
L ₂	0.15	0.20	0.25	0.006	0.008	0.010

Soledering Footprint





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