

Discription

e HPE4218CS_R1_00001 protects sensitive semiconductor	
nponents from damage or upset due to electrostatic	
charge (ESD) and other voltage induced transient events.	
cellent clamping capability, low leakage, low capacitance,	HXY
d fast response time provide best in class	
tection on designs that are exposed to ESD.	
ives designer the flexibility to protect one unidirectional	
in applications where arrays are not practical.	SOD-32

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) ★ Peak power dissipation: 350W (8/20us)
- Working voltages : 18V ★
- ★ Protects one Vcc or data line
- ★ Low clamping voltage
- ★ Low leakage current

Orderingin formation





Circuit Diagram

Product ID	Pack	Qty(PCS)
HPE4218CS_R1_00001	SOD-323	3000

Absolute Ratings(Tamb = 25°C)

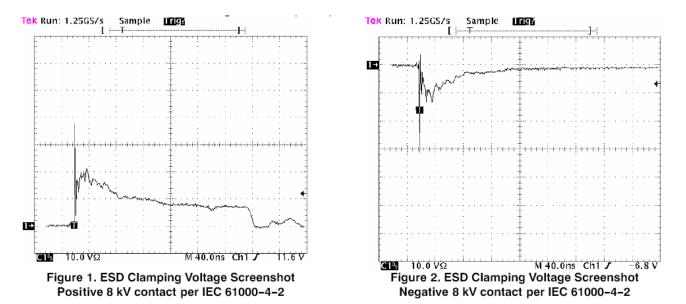
Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	350	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +155	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	±30 ±30	KV
	IEC61000-4-4 (EFT)	40	А



Electrical Characteristics

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				18	V
Vbr	Reverse Breakdown Voltage	I⊤ = 1mA	20			V
IR	Reverse Leakage Current	$V_{RWM} = 18V$			1	μA
Vc	Clamping Voltage	$I_{RWM} = 1A, t_{P} = 8/20 \mu s$			29	V
		$I_{RWM} = 9A, t_p = 8/20 \mu s$			45	V
С	Junction Capacitance	$V_R = 0V, f = 1MHz$		58	70	pF

Typical Characteristics





MAX

0.04

0.004

0.016

0.007

0.07

0.053

0.105

Outline And Dimensions

HE

D

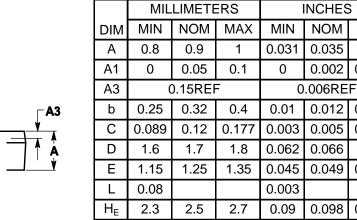
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

2. CONTROLLING DIMENSION: MILLIMETERS.

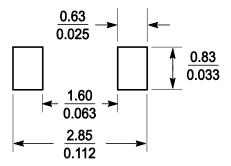
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

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



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Soledering Footprint





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