

## Discription

The HPE4215CS_R1_00001 protects sensitive semiconductor	
components from damage or upset due to electrostatic	
discharge (ESD) and other voltage induced transient events.	100
Excellent clamping capability, low leakage, low capacitance,	HXY
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.	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 : 15V ★
- ★ Protects one Vcc or data line
- ★ Low clamping voltage
- ★ Low leakage current

## **Orderingin formation**







**Circuit Diagram** 

Product ID	Pack	Qty(PCS)
HPE4215CS_R1_00001	SOD-323	3000

## Absolute Ratings(Tamb = 25°C)

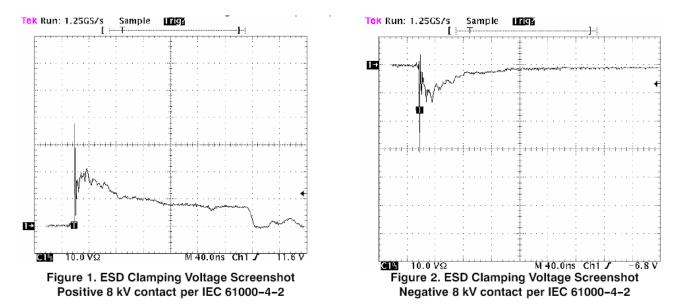
Symbol	Parameter		Value	Units
P <sub>PP</sub>	Peak Pulse Power ( $t_p = 8/20 \ \mu \ s$ )	350	W	
TL	Maximum lead temperature for soldering during 10s	260	°C	
T <sub>stg</sub>	Storage Temperature Range	-55 to +155	°C	
T <sub>op</sub>	Operating Temperature Range	-40 to +125	°C	
Tj	Maximum junction temperature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



## **Electrical Characteristics**

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				15	V
Vbr	Reverse Breakdown Voltage	I⊤ = 1mA	16.7			V
IR	Reverse Leakage Current	$V_{RWM} = 15V$			1	μA
Vc	Clamping Voltage	$I_{RWM} = 1A, t_{P} = 8/20 \mu s$			24	V
VC	Clamping Voltage	I <sub>RWM</sub> = 10A, t <sub>p</sub> = 8/20µs			38	V
CJ	Junction Capacitance	$V_R = 0V, f = 1MHz$		50	65	pF

# **Typical Characteristics**





## **Outline And Dimensions**

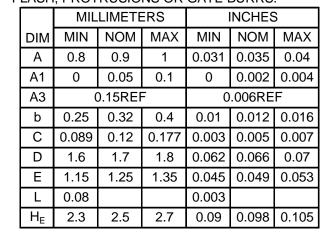
Notes:

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

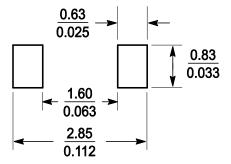
2. CONTROLLING DIMENSION: MILLIMETERS.

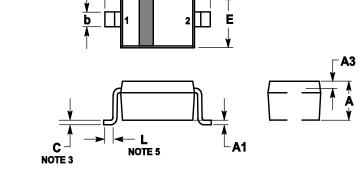
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

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



## **Soledering Footprint**





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