

# Product data sheet

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CPDH3V3UP-MS

Semiconductor

Compiance

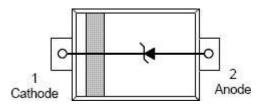
### Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

#### Features

- Small Body Outline Dimensions
- Low Body Height
- Stand-off Voltage: 3.3 V
- Peak Power up to 200 Watts @ 8 x 20 \_sPulse
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection
- We declare that the material of product compliance with RoHS requirements.





## Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.VF = 0.9V at IF = 10mA

TYPE	V <sub>RWM</sub> (V)	I <sub>R</sub> (uA) @ V <sub>RWM</sub>	V <sub>BR</sub> (V)@ I <sub>T</sub> (Note 1)	Ι <sub>τ</sub>	V <sub>C</sub> (V) @ I <sub>PP</sub> =5 A*	V <sub>C</sub> (V) @ Max I <sub>PP</sub> *	І <sub>РР</sub> (А)*	Р <sub>РК</sub> (W)*	C (pF)
	Мах	Мах	Min	mA	Тур	Мах	Мах	Max	Тур
CPDH3V3UP-MS	3.3	1.0	5.0	1.0	8.4	14.1	11.2	158	105

### Absolute Ratings (T<sub>amb</sub>=25°C)

Symbol	Parameter		Value	Units	
P <sub>PP</sub>	Peak Pulse Power (t <sub>p</sub> = 8/20µs)		200	W	
TL	Maximum lead temperature for soldering during 10s	260	°C		
T <sub>stg</sub>	Storage Temperature Range		-55 to +150	°C	
T <sub>op</sub>	Operating Temperature Range		-40 to +125	°C	
Tj	Maximum junction temperature		150	°C	
	IEC61000-4-2 (ESD) a	ir discharge	±15	KV	
	contac	ct discharge	±8	IXV	
	IEC61000-4-4 (EFT)		40	А	
	ESD Voltage Per Human B	Body Model	16	KV	





## **Electrical Parameter**

Symbol	Parameter		
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V <sub>RWM</sub>	Working Peak Reverse Voltage		
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>		
Ι <sub>Τ</sub>	Test Current		
V <sub>BR</sub>	Breakdown Voltage @ I⊤		

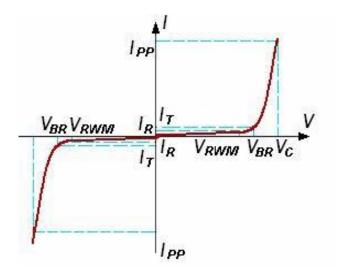
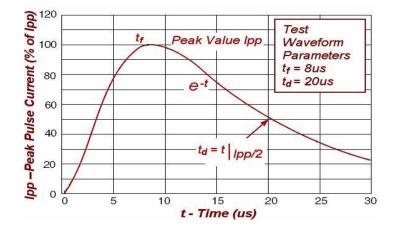
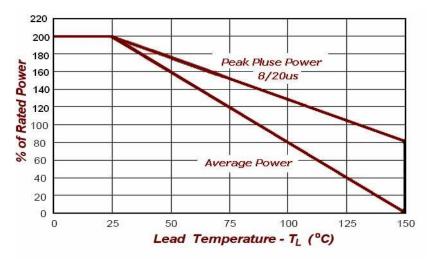


FIG1: Pulse Waveform



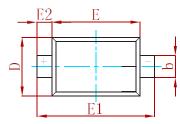


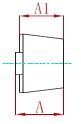


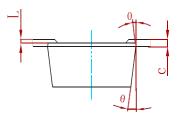




## PACKAGE MECHANICAL DATA

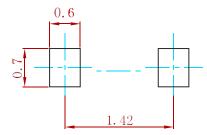






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200	REF	0.008 REF		
L	0.010	0.070	0.001	0.003	
0	7° F	REF	7° REF		

## Suggested Pad Layout



#### Note:

1.Controlling dimension:in millimeters.

2.General tolerance:± 0.05mm.

3. The pad layout is for reference purposes only.

## **REEL SPECIFICATION**

P/N	PKG	QTY
CPDH3V3UP-MS	SOD-523	3000



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