

CPDT6-5V4-HF

RoHS Device Halogen Free



Features

- -Common anode ESD protection.
- -IEC61000-4-2 Level 4 ESD protection.
- -Low operating voltage: < 5V.
- -Fast turn-on and low clamping voltage.

Mechanical data

- -Case: SOT-23-6 Standard package, molded plastic.
- -Terminals: Tin plated, solderable per MIL-STD-750, method 2026.
- -Marking code:E5V4
- -Mounting position: Any.
- -Weight: 0.015 gram(approx.).

0.119(3.02) 0.111(2.82) 0.0059(1.50) 0.045(1.15) 0.041(1.05) 0.020(0.50) 0.012(0.30) 0.004(0.10) 0.004(0.10) 0.002(0.30) 0.012(0.30) 0.002(0.30) 0.002(0.30) 0.002(0.30) 0.002(0.30) 0.002(0.30) 0.002(0.30) 0.002(0.30)

Circuit diagram



Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Diode breakdown voltage	IR = 1mA	VBD	5.1	7.0		V
Leakage current	VR = 5V	lL		0.1	2.0	uA
Junction capacitance	VR =0V,f =1MHz	Ст		15	20	pF
ESD capability	IEC 61000-4-2(air) IEC 61000-4-2(contact)	ESD			16 8	kV
Clamping voltage	IPP = 5A,TP=8/20us	Vc			15	V
Peak pulse power	Tp=8/20us	Ppp			75	W
Operation temperature		Tj	-40		125	°C
Storage temperature		Тѕтс	-55		150	°C

Company reserves the right to improve product design, functions and reliability without notice.



RATING AND CHARACTERISTIC CURVES (CPDT6-5V4-HF)

Fig. 1 - 8/20us Peak pulse current wave form acc. IEC 61000-4-5

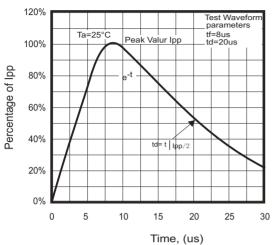


Fig. 2 - Reverse characteristics

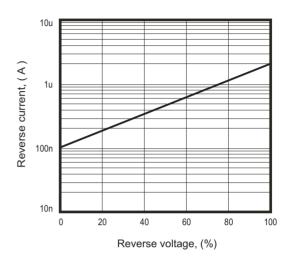


Fig.3 - Capacitance between terminals characteristics

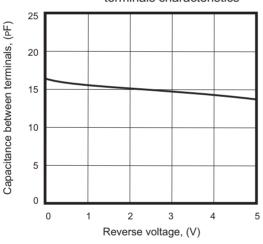
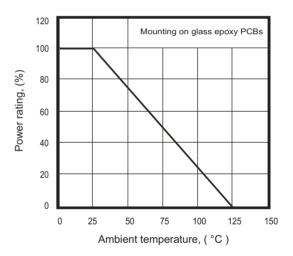
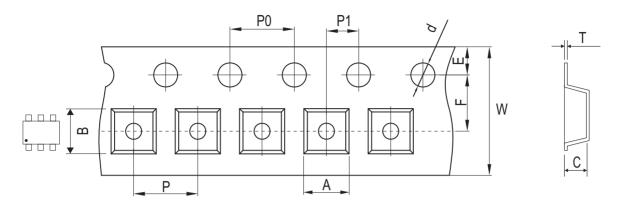


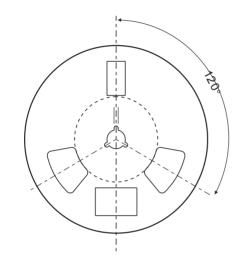
Fig.4 - Power rating derating curve

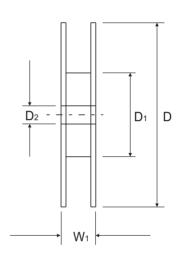


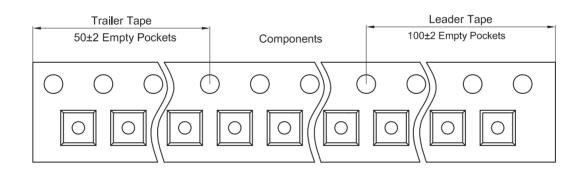


Reel Taping Specification









	SYMBOL	Α	В	С	d	D	D1	D2
SOT-23-6	(mm)	3.17 ± 0.10	3.23 ± 0.10	1.37 ± 0.10	1.50 ± 0.05	180.0 + 0.00 / - 0.30	60.00 ± 0.50	13.00 ± 0.20
	(inch)	0.125 ± 0.004	0.127 ± 0.004	0.054 ± 0.004	0.059 ± 0.002	7.087 + 0.00 / - 0.012	2.362 ± 0.020	0.512 ± 0.008

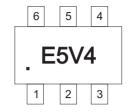
	SYMBOL	E	F	Р	Po	P1	W	W 1
SOT-23-6	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	8.00 + 0.30 / - 0.10	12.30 ± 0.20
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.315 + 0.012 / - 0.004	0.484 ± 0.008

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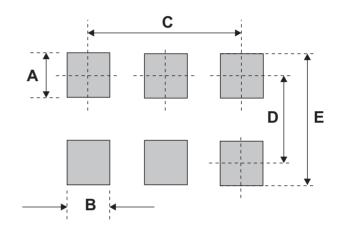
Marking Code

Part Number	Marking Code	
CPDT6-5V4-HF	E5V4	



Suggested PAD Layout

SIZE	SOT-23-6			
	(mm)	(inch)		
Α	1.10	0.043		
В	0.60	0.024		
С	1.90	0.075		
D	2.50	0.098		
E	3.60	0.142		



Standard Packaging

	REEL PACK			
Case Type	REEL (pcs)	Reel Size (inch)		
SOT-23-6	3,000	7		

Mouser Electronics

Authorized Distributor

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Comchip Technology: CPDT6-5V4-HF