

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CPDT-5V0C-HF

RoHS Device Halogen Free



Features

- -Bi-directional ESD protection.
- -IEC61000-4-2 Level 4 ESD protection
- -Operating voltage: 5V.

Mechanical data

- -Case: SOT-23 Standard package, molded plastic.
- -Terminals: solderable per

MIL-STD-750, method 2026.

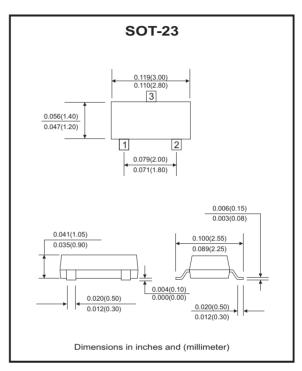
-Marking code: E05

-Mounting position: Any.

-Weight: 0.0078 gram (approx.).

Circuit diagram





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

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Diode breakdown voltage	IR = 1mA	VBD	6.1	7.0		V
Leakage current	VR = 5V	lL		0.1	2.0	uA
Junction capacitance	VR =0V,f =1MHz	Ст		25	30	pF
ESD capability	IEC 61000-4-2(air) IEC 61000-4-2(contact)	ESD			16 8	kV
Operation temperature		Tj			125	°C
Storage temperature		Тѕтс	-55		150	°C

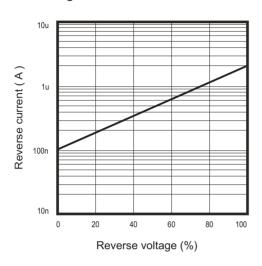


RATING AND CHARACTERISTIC CURVES (CPDT-5V0C-HF)

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Fig. 1 - Reverse characteristics

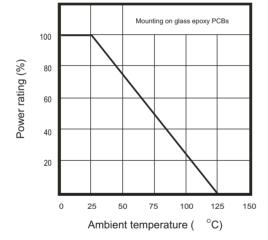


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Fig. 2 - Capacitance between

terminals characteristics

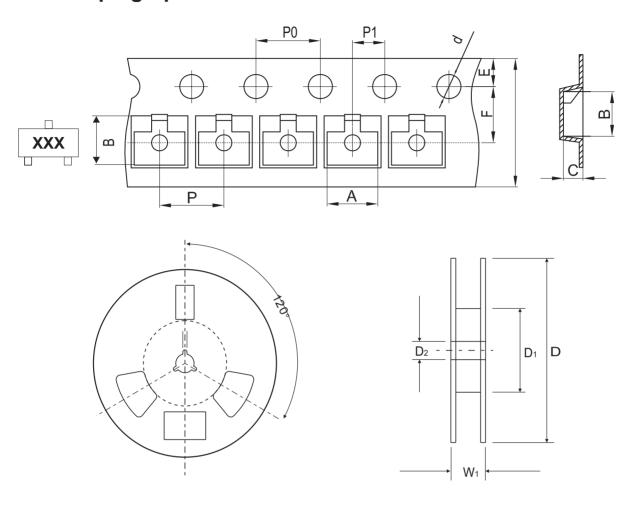
Fig. 3 - Power rating derating curve

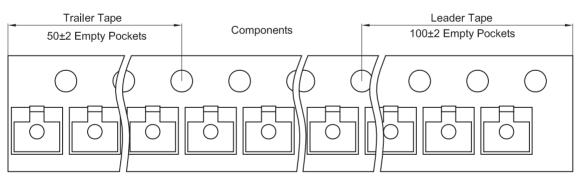


Capacitance between terminals (PF) 15 10 4 2 3 5 Reverse voltage (V)



Reel Taping Specification





	SYMBOL	Α	В	С	d	D	D1	D2
SOT-23	(mm)	3.15 ± 0.10	2.77 ± 0.10	1.22 ± 0.10	1.50 + 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.124 ± 0.004	0.109 ± 0.004	0.048 ± 0.004	0.059 + 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

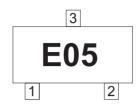
	SYMBOL	E	F	Р	Po	P1	W	W 1
SOT-23	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	12.30 ± 1.0
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.484 ± 0.039

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



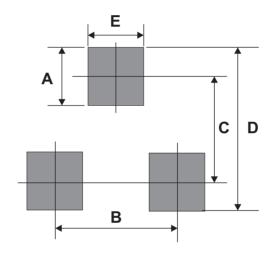
Marking Code

Part Number	Marking Code
CPDT-5V0C-HF	E05



Suggested PAD Layout

CIZE	SOT-23			
SIZE	(mm)	(inch)		
Α	0.80	0.031		
В	1.90	0.075		
С	2.02	0.080		
D	2.82	0.111		
E	0.80	0.031		



Standard Packaging

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