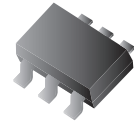
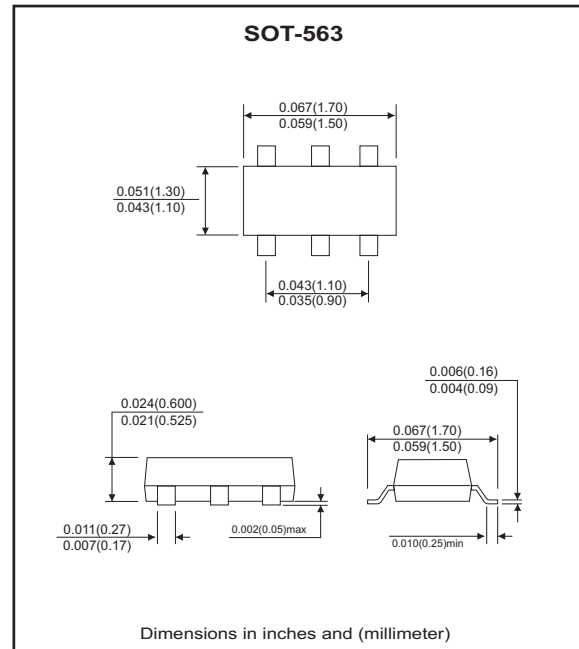
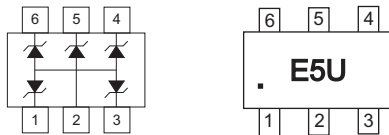


CPDH6-5V0U**RoHS Device****Features**

- IEC61000-4-2 8kV(Contact), 15kV(air).
- Surface mount package.
- High component density.

Mechanical data

- Case: SOT-563 Standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750D, method 2026.
- Mounting position: Any.
- Approx. weight: 0.003 grams

Marking: E5U**Maximum Ratings and Electrical Characteristics**

At T_A=25 °C ambient temperature unless otherwise specified.

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Units
Diode breakdown voltage	V _{BD}	I _Z =1mA	6.1		7.1	V
Leakage current	I _L	V _R =3V		0.1	1.0	μA
Forward voltage	V _F	I _F =5μA			1.2	V
Junction capacitance	C _T	V _R =0V, f=1MHz		60	80	pF
Clamping voltage	V _C	I _{PP} =1A, T _P =8/20μs I _{PP} =8A, T _P =8/20μs			8 10	V
ESD capability	V _{ESD}	C=150pF, R=300Ω, forward and reverse 10 pulses	8			kV
Peak pulse power	P _{PP}				80	W
Storage temperature	T _{STG}		-55		+125	°C
Junction temperature	T _J		-55		+125	°C

RATING AND CHARACTERISTIC CURVES (CPDH6-5V0U)

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

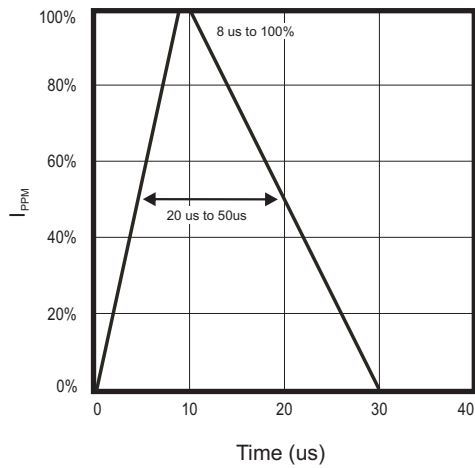


Fig. 2 - Power rating derating curve

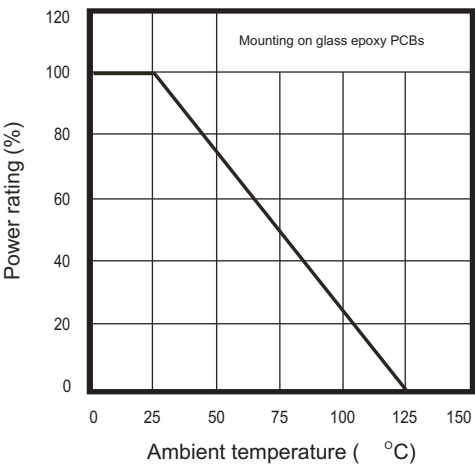


Fig. 3 - Clamping volatage vs. peak pulse current

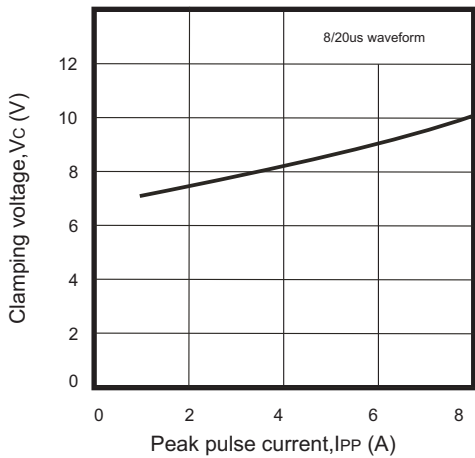
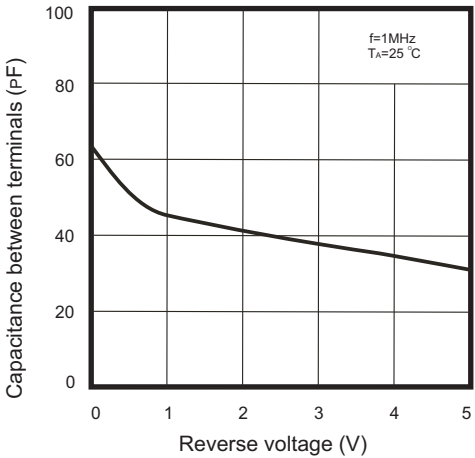
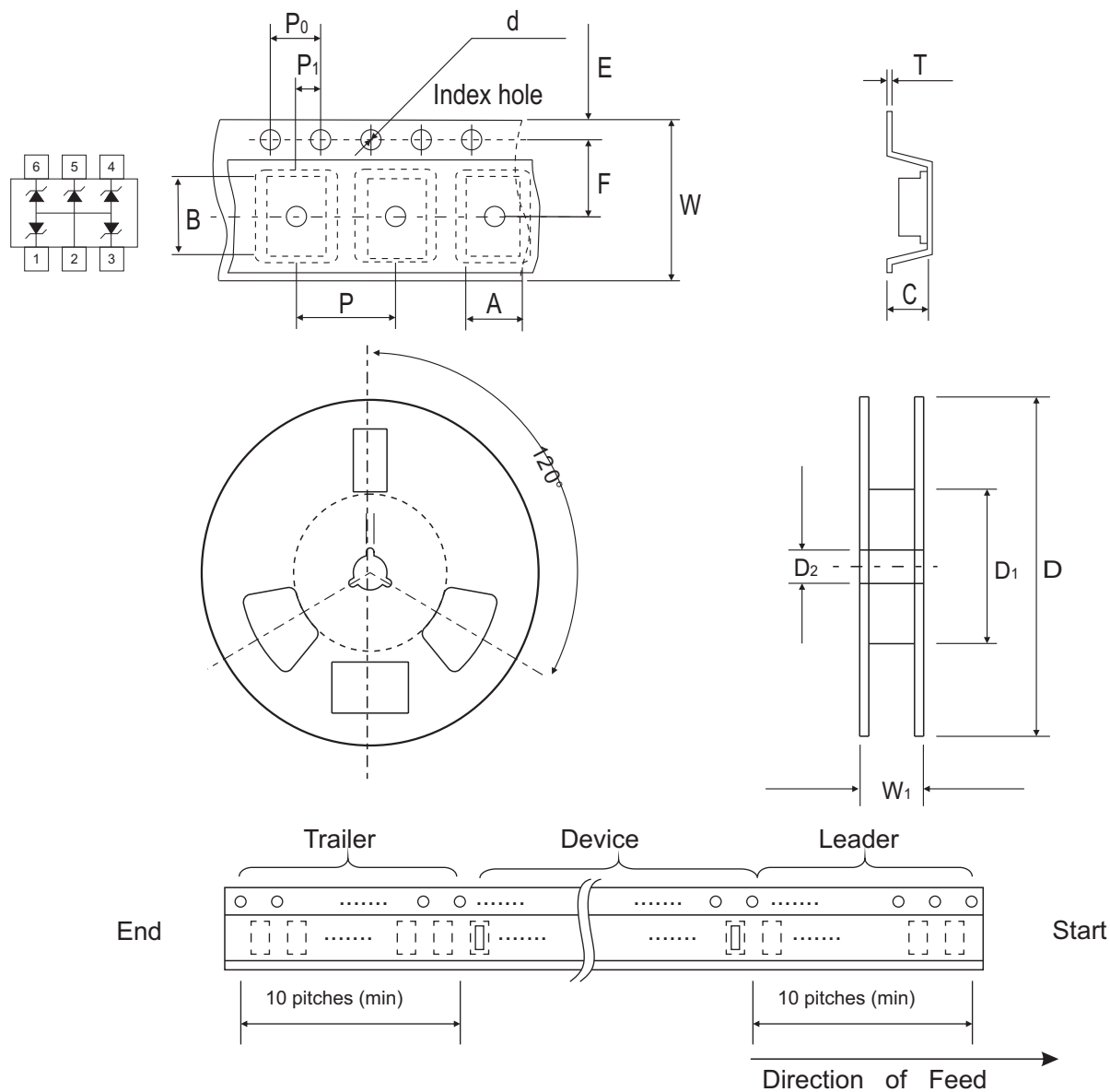


Fig. 4 - Capacitance between terminals characteristics



Reel Taping Specification

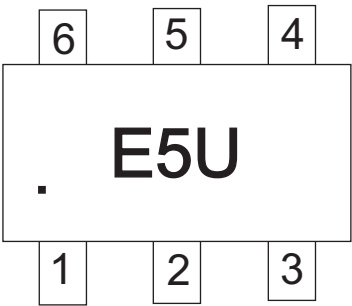


SOT-563	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.78 ± 0.05	1.78 ± 0.05	0.69 ± 0.05	1.50 ± 0.10	178 ± 1	50.0 MIN.	13.0 ± 0.20
	(inch)	0.070 ± 0.002	0.070 ± 0.002	0.027 ± 0.002	0.061 ± 0.004	7.008 ± 0.040	1.969 MIN.	0.512 ± 0.008

SOT-563	SYMBOL	E	F	P	P0	P1	W	W1
	(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	14.4 MAX.
	(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	0.567 MAX

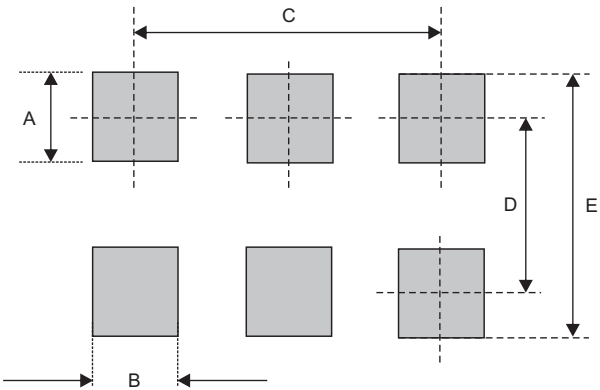
Marking Code

Park Number	Marking Code
CPDH6-5V0U	E5U



Suggested PAD Layout

SIZE	SOT-563	
	(mm)	(inch)
A	0.45	0.018
B	0.30	0.012
C	1.00	0.039
D	1.35	0.053
E	2.70	0.106



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
SOT-563	3000	7