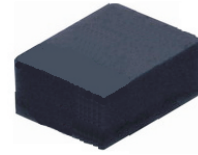


CPDTR035V0U-HF

RoHS Device
Halogen Free

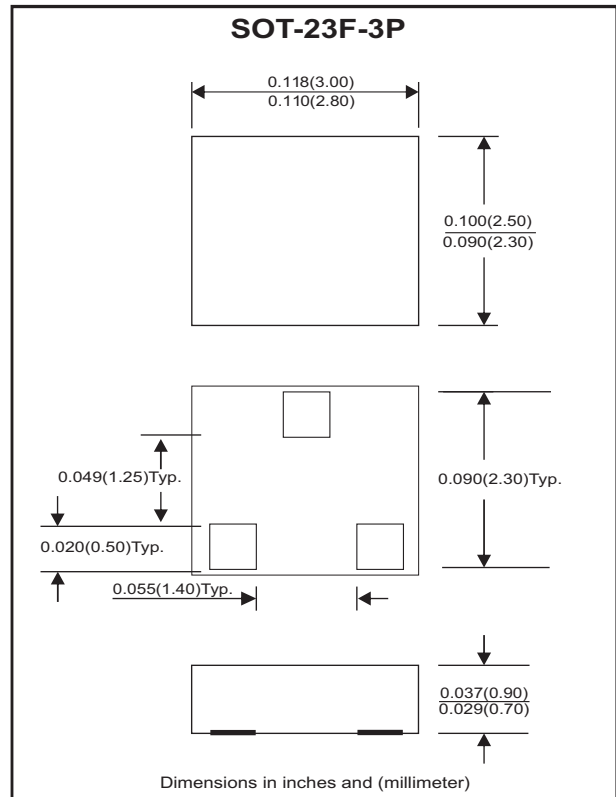
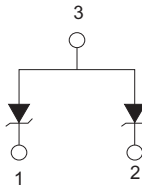


Features

- Uni-directional ESD protection
- Working voltage:5V
- High component density.

Mechanical data

- Case: SOT-23F-3P standard package , molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Marking Code: E5U
- Mounting position: Any.
- Weight: 0.012 gram (approx.).



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 10\text{mA}$	V_F		0.8		V
Diode breakdown voltage	$I_R = 1\text{mA}$	V_{BD}	6			V
Leakage current	$V_R = 5\text{V}$	I_L		0.1	1.0	μA
Junction capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	C_T		60	80	pF
ESD capability	IEC 61000-4-2(air) IEC 61000-4-2(Contact)	ESD			16 8	kV
Clamping voltage	$I_{PP} = 1\text{A}, T_P=8/20\mu\text{s}$ $I_{PP} = 8\text{A}, T_P=8/20\mu\text{s}$	V_C			8 10	V
Peak pulse power		P_{PP}			80	W
Operation temperature		T_J			125	$^{\circ}\text{C}$
Storage temperature		T_{STG}	-55		150	$^{\circ}\text{C}$

RATING AND CHARACTERISTIC CURVES (CPDTR035V0U-HF)

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

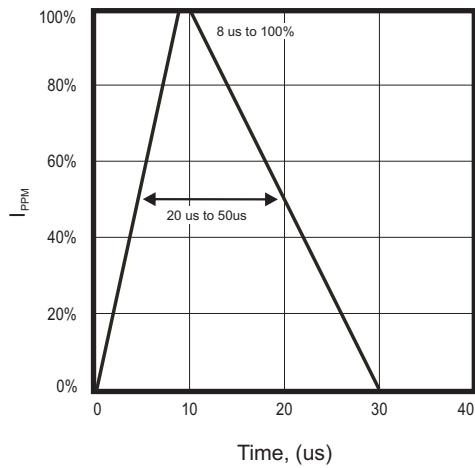


Fig. 2 - Power rating derating curve

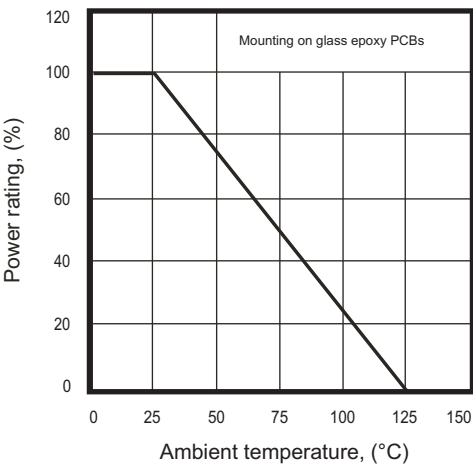


Fig. 3 - Clamping volatage vs. peak pulse current

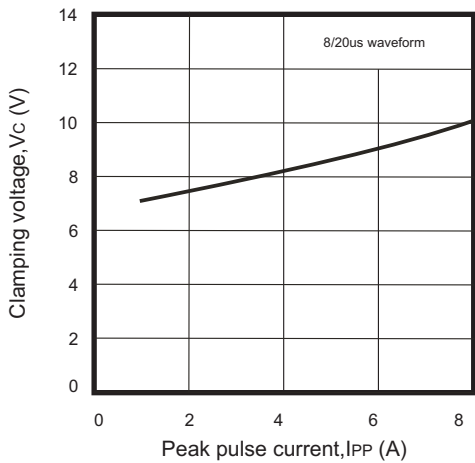
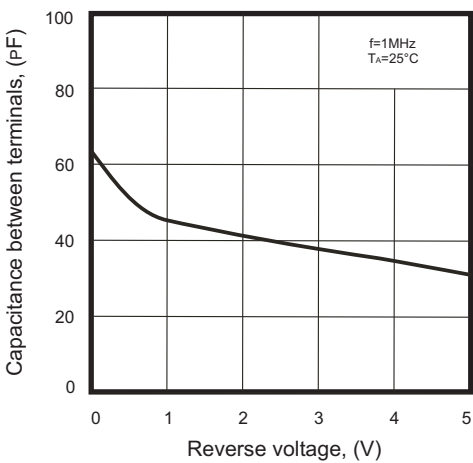
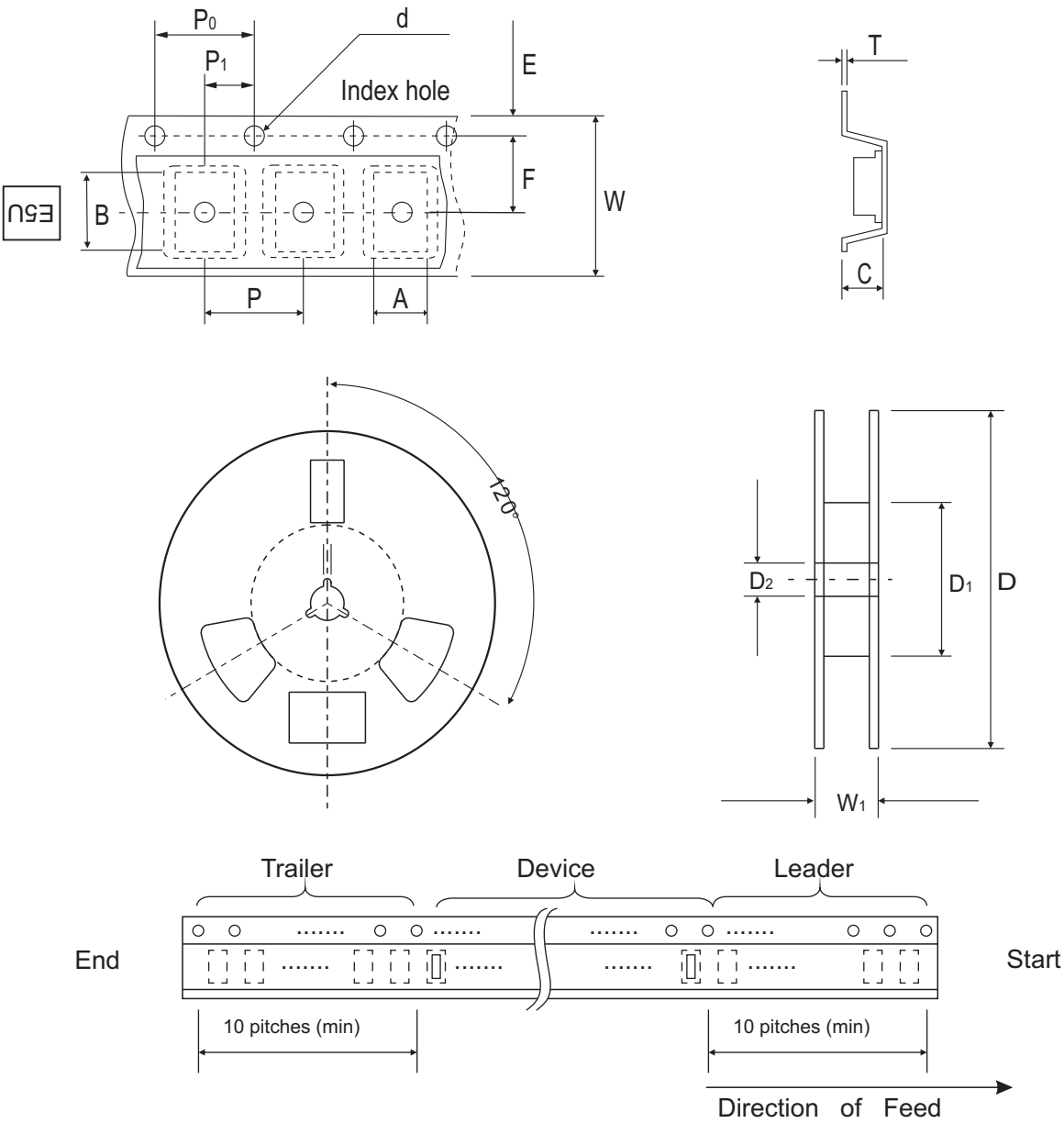


Fig. 4 - Capacitance between terminals characteristics



Reel Taping Specification



SOT-23F-3P	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	3.15 ± 0.10	2.65 ± 0.10	0.95 ± 0.10	1.55 ± 0.10	178 ± 1	60.0 MIN.	13.0 ± 0.20
	(inch)	0.124 ± 0.004	0.104 ± 0.004	0.037 ± 0.004	0.061 ± 0.004	7.008 ± 0.04	2.362 MIN.	0.512 ± 0.008

SOT-23F-3P	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.22 ± 0.05	8.00 ± 0.20	13.5 MAX.
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.002	0.315 ± 0.008	0.531 MAX.

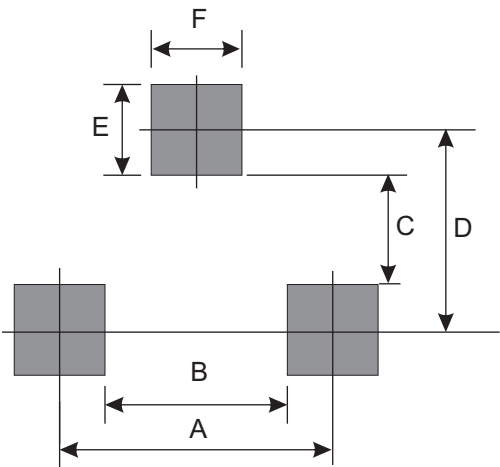
Marking Code

Part Number	Marking Code
CPDTR035V0U-HF	E5U



Suggested PAD Layout

SIZE	SOT-23F-3P	
	(mm)	(inch)
A	1.90	0.075
B	1.10	0.043
C	0.90	0.035
D	1.70	0.067
E	0.80	0.031
F	0.80	0.031



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
SOT-23F-3P	3,000	7