



**THE DATASHEET OF
CPDF24V0U-HF**



CPDF24V0U-HF

RoHS Device
Halogen Free



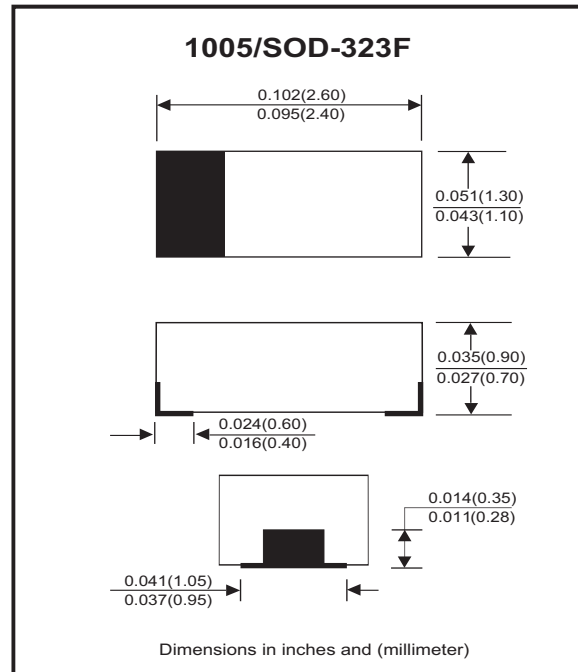
Features

- Uni-directional ESD protection
- Surface mount package.
- High component density.

Mechanical data

- Case: 1005/SOD-323F Standard package ,
molded plastic.
- Terminals: Gold plated, solderable per
MIL-STD-750, method 2026.
- Mounting position: Any.
- Weight: 0.006 grams(approx.).

Circuit Diagram



Maximum Rating AND Electrical Characteristics

(at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 10mA	V _F		0.8	1.2	V
Diode breakdown voltage	I _R = 1mA	V _{BD}	26.5			V
Leakage current	V _R = 24V	I _L			0.25	uA
Junction capacitance	V _R = 0V, f = 1MHz	C _T			35	pF
ESD capability	IEC 61000-4-2(air) IEC 61000-4-2(contact)	ESD			20 15	kV
Clamping voltage	I _{PP} = 1A, T _P =8/20us I _{PP} = 3A, T _P =8/20us	V _C			38 50	V
Peak pulse power		P _{PP}			150	W
Operation temperature range		T _J	-55		125	°C
Storage temperature range		T _{STG}	-55		150	°C

RATING AND CHARACTERISTIC CURVES (CPDF24V0U-HF)

Fig.1 - 8/20us Peak Pulse Current Wave Form Acc. IEC 61000-4-5

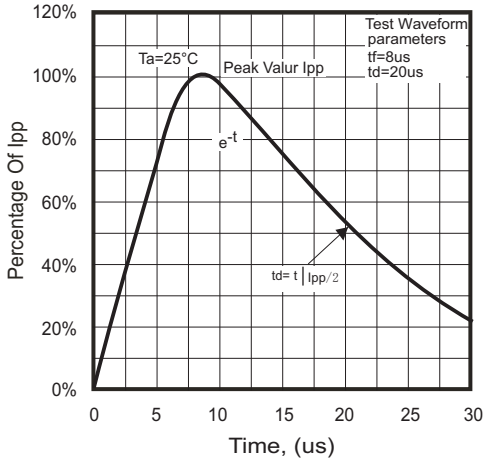


Fig.2 - Power Rating Derating Curve

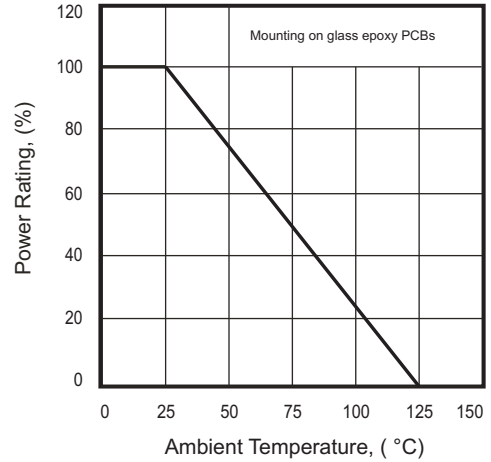


Fig.3 - Clamping Voltage vs. Peak Pulse Current

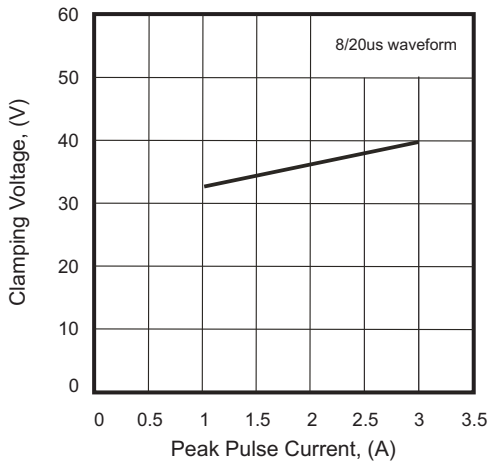


Fig.4 - Clamping Voltage vs. Forward Peak Pulse Current

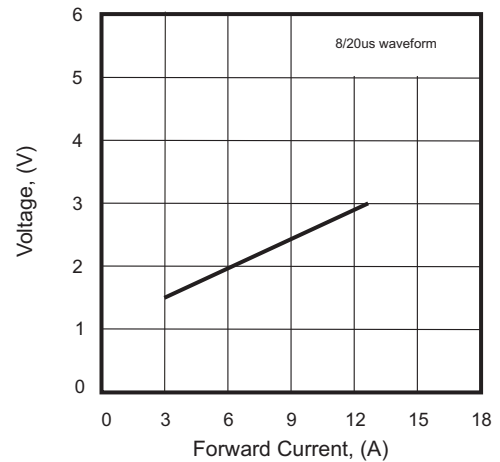
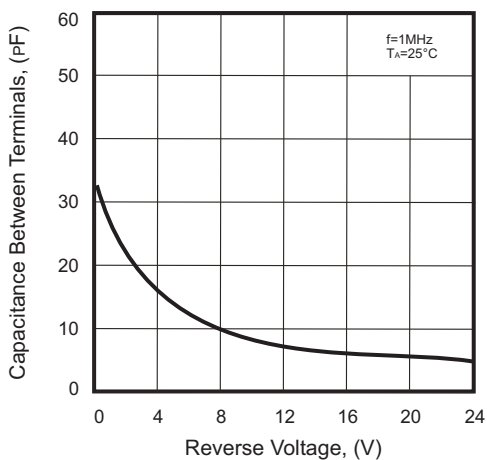
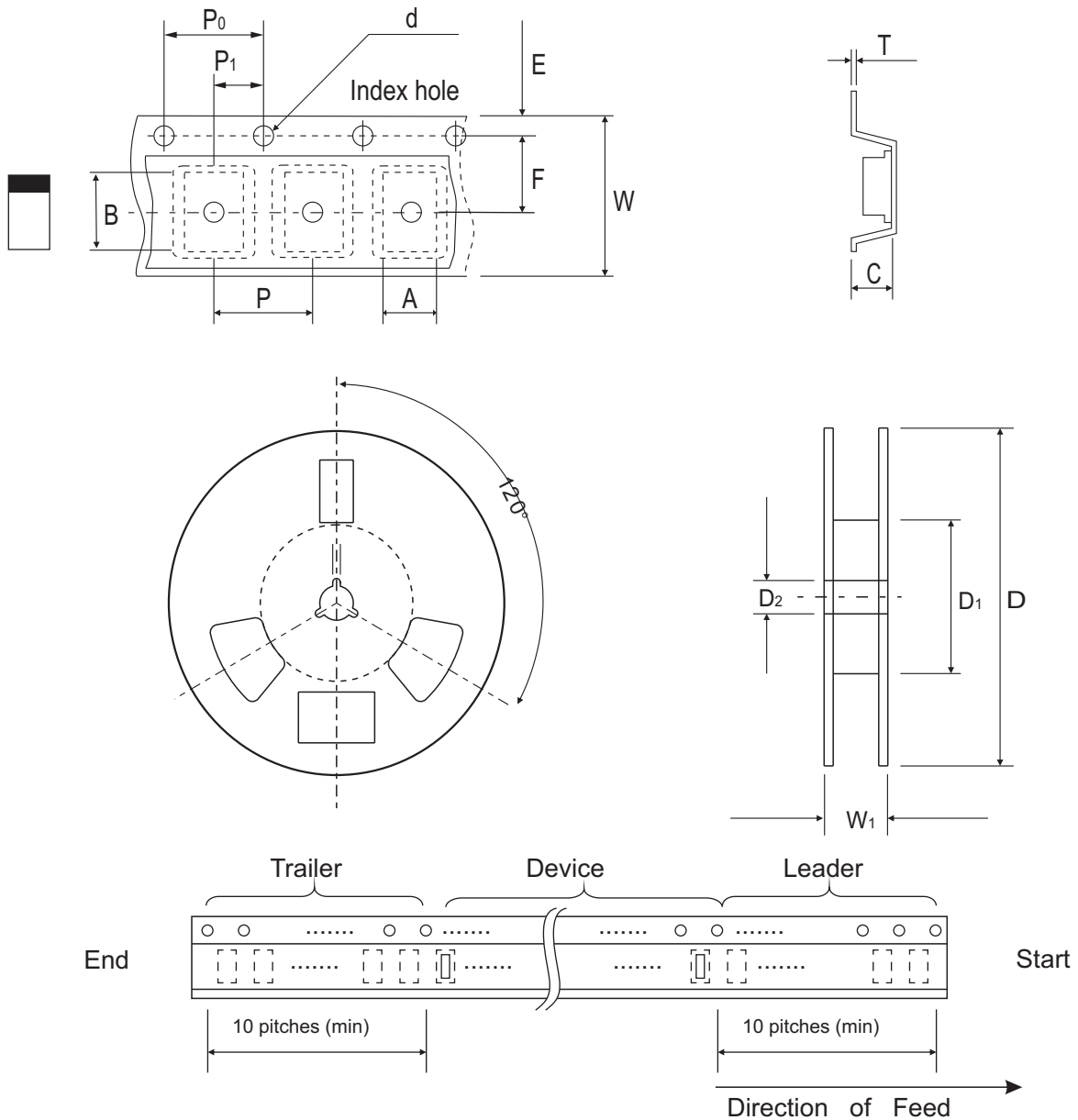


Fig.5 - Capacitance Between Terminals Characteristics



Reel Taping Specification



1005 (SOD-323F)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.550 ± 0.10	2.650 ± 0.10	1.050 ± 0.10	1.55 ± 0.05	178 ± 1.0	60.0 MIN.	13.00 ± 0.20
	(inch)	0.061 ± 0.004	0.104 ± 0.004	0.041 ± 0.004	0.061 ± 0.002	7.008 ± 0.04	2.362 MIN.	0.512 ± 0.008

1005 (SOD-323F)	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 ± 0.05	0.23 ± 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 ± 0.002	0.009 ± 0.002	0.315 ± 0.008	0.531 MAX.

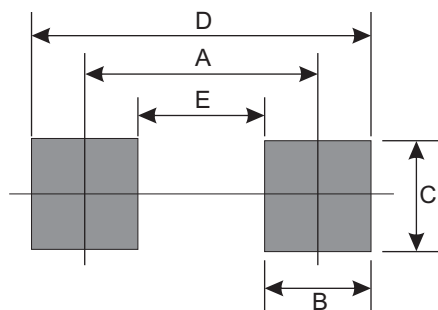
Marking Code

Part Number	Marking Code
CPDF24V0U-HF	E24



Suggested PAD Layout

SIZE	1005/SOD-323F	
	(mm)	(inch)
A	2.10	0.083
B	1.20	0.047
C	1.20	0.047
D	3.30	0.130
E	0.90	0.035



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
1005/SOD-323F	4,000	7

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