

CPDZC3V3AU-HF

RoHS Device
Halogen Free



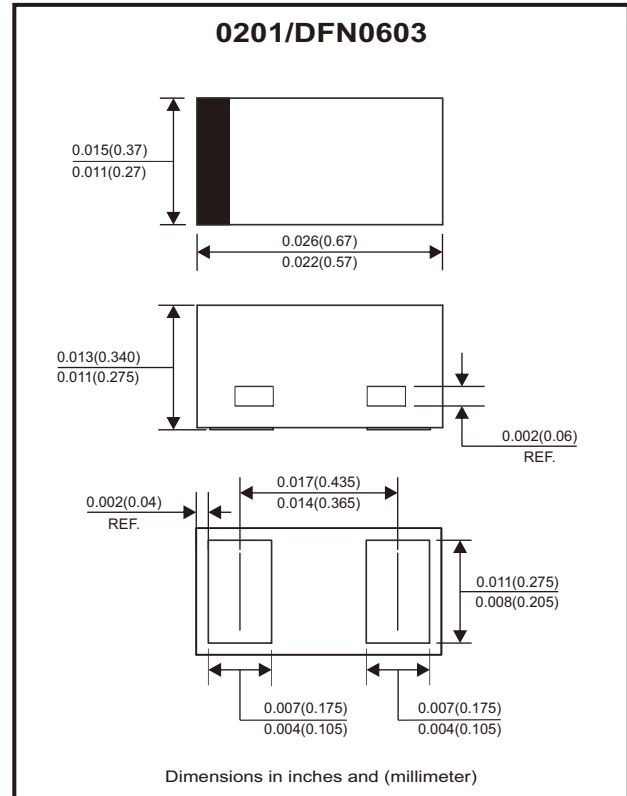
Features

- Uni-directional ESD protection.
- IEC 61000-4-5 (surge) ; $I_{PP}=4A$
- IEC 61000-4-2 (ESD) ; $\pm 20KV$ (contact)
- Low clamping voltage.
- Low leakage current.

Mechanical data

- Case: 0201/DFN0603 package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Mounting position: Any.
- Weight: 0.0004 grams (approx.).

Circuit Diagram



Maximum Rating (at $T_A=25^\circ C$ unless otherwise noted)

Parameter	Conditions	Symbol	Value	Unit
Peak pulse power	$T_P = 8/20\mu s$	P_{PP}	56	W
Peak pulse current	$T_P = 8/20\mu s$	I_{PP}	4	A
ESD capability	IEC 61000-4-2(air)	ESD	± 20	kV
	IEC 61000-4-2(contact)	ESD	± 20	
Operating temperature range		T_J	$-55 \sim +125$	$^\circ C$
Storage temperature range		T_{STG}	$-55 \sim +150$	$^\circ C$

Electrical Characteristics (at $T_A=25^\circ C$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Working peak reverse voltage		V_{RWM}			3.3	V
Breakdown voltage	$I_T = 1mA$	V_{BR}	4.2			V
Forward voltage	$I_F = 15mA$	V_F			1.2	V
Reverse leakage current	$V_{RWM} = 3.3V$	I_R			100	nA
Clamping voltage	$I_{PP} = 1A, T_P = 8/20\mu s$	V_C			10	V
	$I_{PP} = 4A, T_P = 8/20\mu s$	V_C			14	V
Junction capacitance	$V_R = 0V, f = 1MHz$	C_J		0.45	0.60	pF

Rating and Characteristic Curves (CPDZC3V3AU-HF)

Fig.1 - 8/20 μ s Peak Pulse Current
Waveform Acc. IEC 61000-4-5

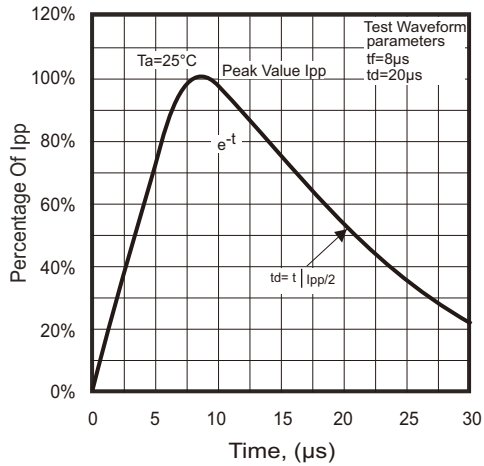


Fig.2 - Power Rating Derating Curve

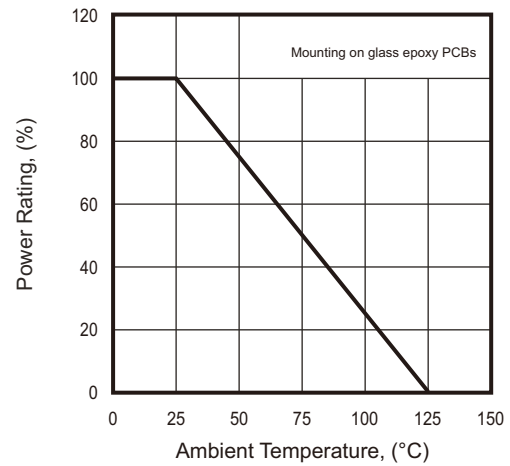


Fig.3 - Typical Clamping Voltage vs. Peak Pulse Current

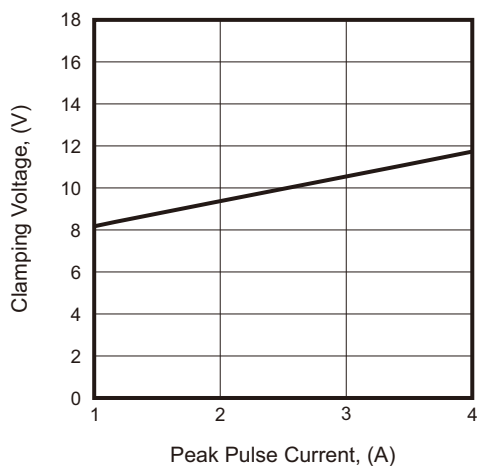


Fig.4 - Forward Characteristic

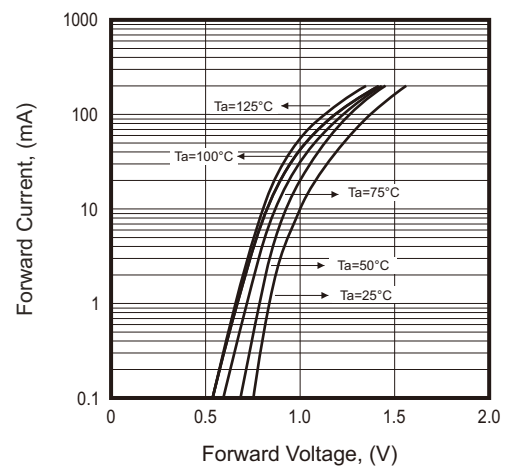
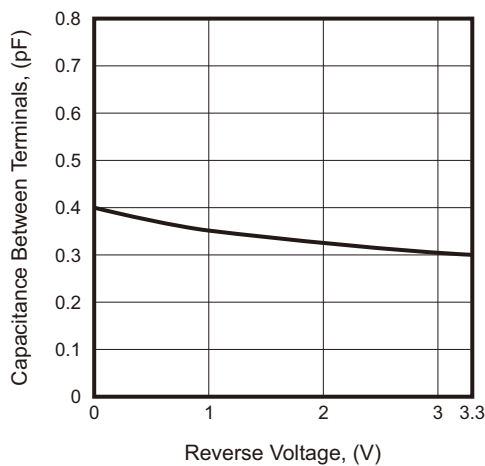
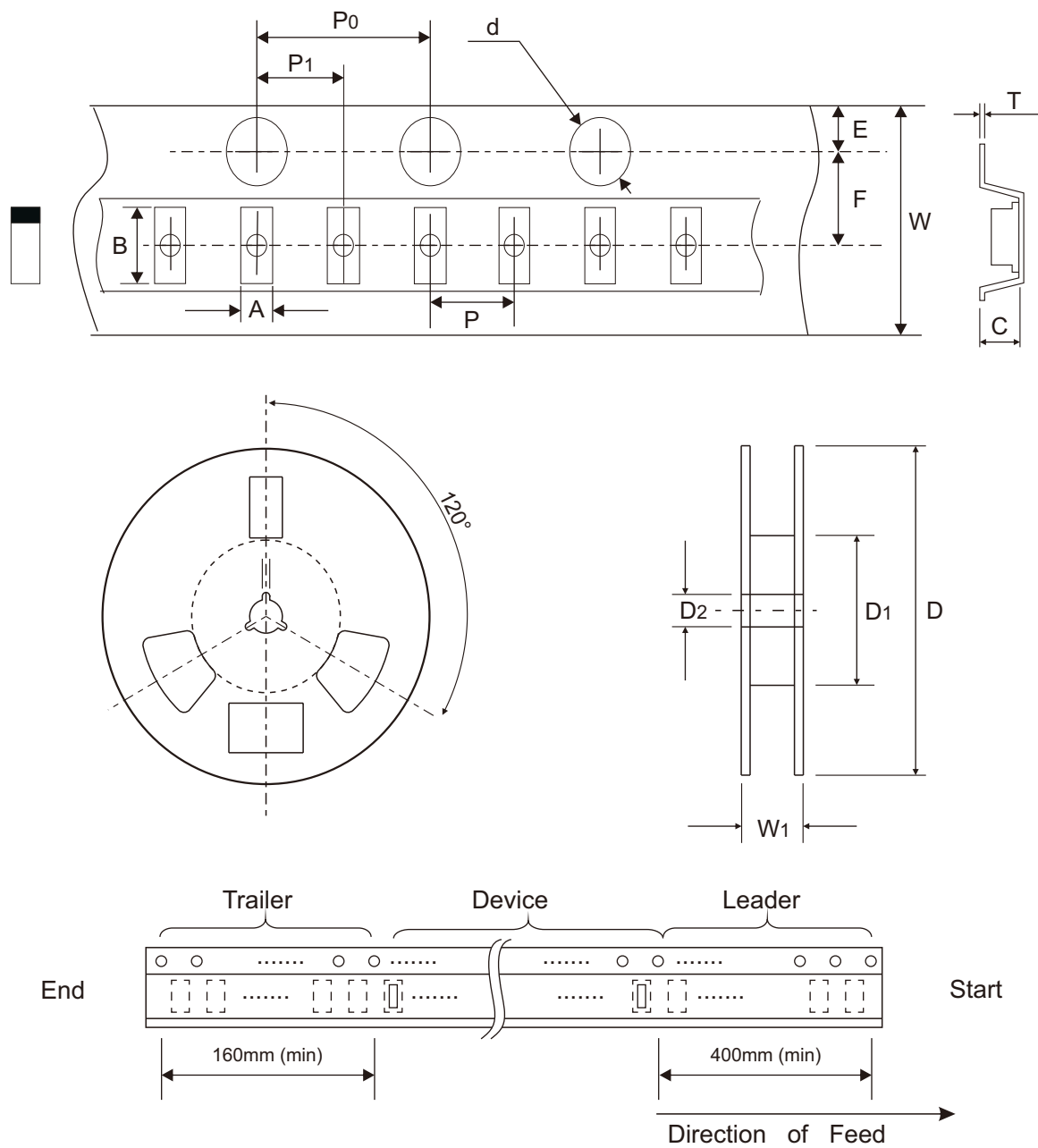


Fig.5 - Typical Capacitance Between Terminals Characteristics



Reel Taping Specification



0201 (DFN0603)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	0.44 ± 0.03	0.74 ± 0.03	0.40 ± 0.03	$1.50 + 0.10 - 0.00$	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.017 ± 0.001	0.029 ± 0.001	0.016 ± 0.001	$0.059 + 0.004 - 0.000$	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

0201 (DFN0603)	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	2.00 ± 0.05	4.00 ± 0.10	2.00 ± 0.05	0.20 ± 0.03	$8.00 + 0.30 - 0.10$	$12.00 + 0.50 - 0.00$
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.079 ± 0.002	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.001	$0.315 + 0.012 - 0.004$	$0.472 + 0.020 - 0.000$

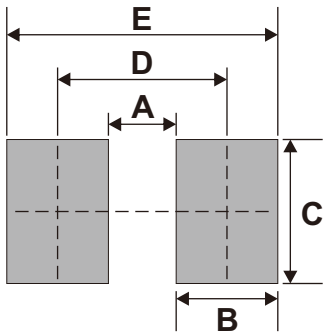
Marking Code

Part Number	Marking Code
CPDZC3V3AU-HF	E3A



Suggested P.C.B. PAD Layout

SIZE	0201(DFN0603)	
	(mm)	(inch)
A	0.16	0.006
B	0.24	0.009
C	0.34	0.013
D	0.40	0.016
E	0.64	0.025



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
0201 (DFN0603)	10,000	7

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