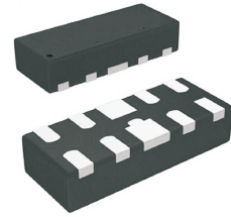


## CPDA10C60VB-HF

RoHS Device

Halogen Free



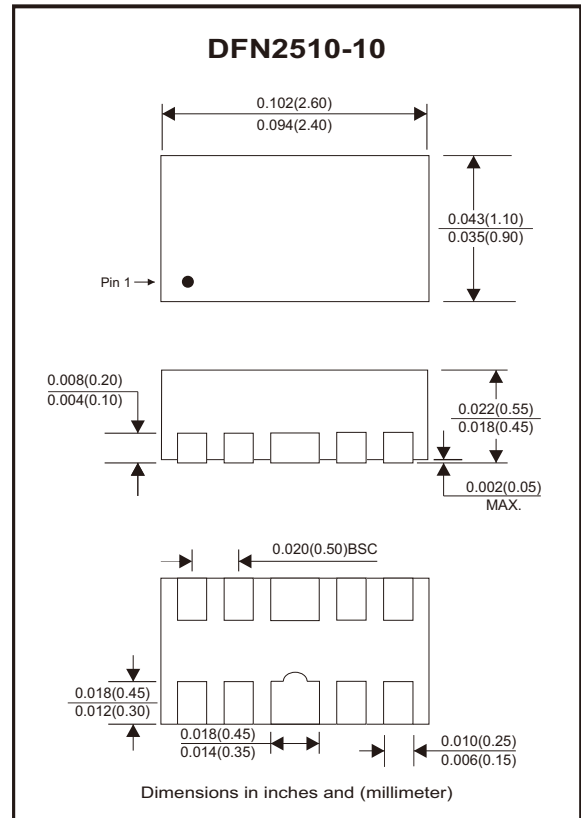
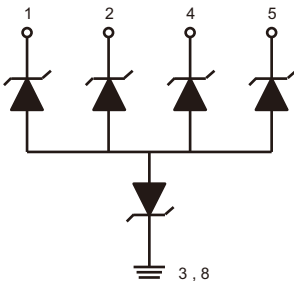
### Features

- IEC61000-4-2 (ESD)±22kV(Contact).
- Working voltage: 60 V.
- Low leakage current.

### Mechanical data

- Case: DFN2510-10 package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750,method 2026.
- Mounting position: Any

### Circuit Diagram



### Maximum Rating (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power ( tp = 8/20µs)	PPP	198	W
Peak pulse current ( tp = 8/20µs)	I <sub>PP</sub>	1.8	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	ESD	±24 ±22	kV
Operating temperature range	T <sub>J</sub>	-55 to +150	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse stand-off voltage	Pin 1, 2, 4, 5 to Pin 3, 8	$V_{RWM}$			60	V
Breakdown voltage	$I_T = 0.001mA$ , Pin 1, 2, 4, 5 to Pin 3, 8 $I_T = 1mA$ , Pin 1, 2, 4, 5 to Pin 3, 8	$V_{BR}$	65			V
Leakage current	$V_{RWM} = 60V$ Pin 1, 2, 4, 5 to Pin 3, 8	$I_R$			100	nA
Clamping voltage	$I_{PP} = 1.8A$ , $T_P = 8/20\mu s$ , Pin 1, 2, 4, 5 to Pin 3, 8	$V_C$		97	110	V
Junction capacitance	$V_R = 0V$ , $f = 1MHz$ Pin 1, 2, 4, 5 to Pin 3, 8	$C_j$		6	8	pF

## Rating and Characteristic Curves (CPDA10C60VB-HF)

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

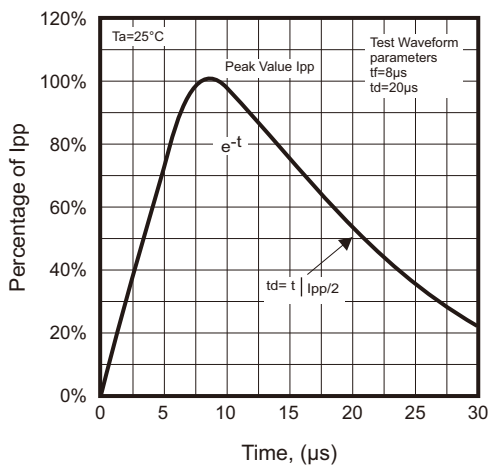


Fig.2 - Typical Capacitance Between Terminals Characteristics

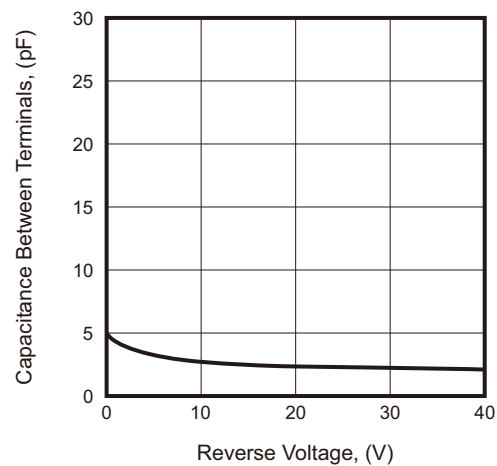


Fig.3 - Typical Clamping Voltage vs. Peak Pulse Current

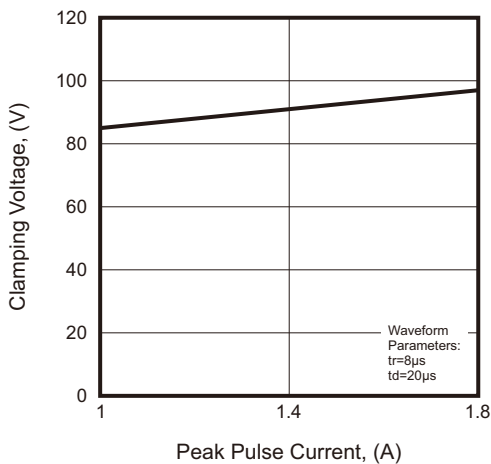
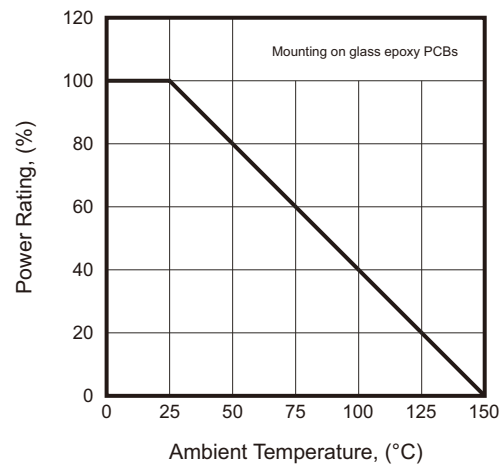
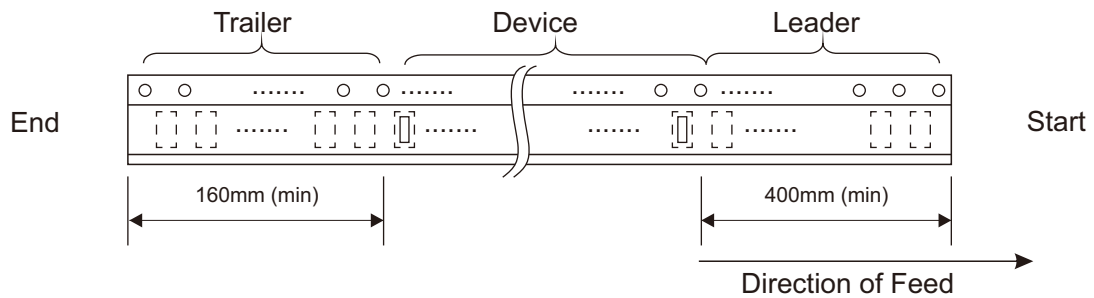
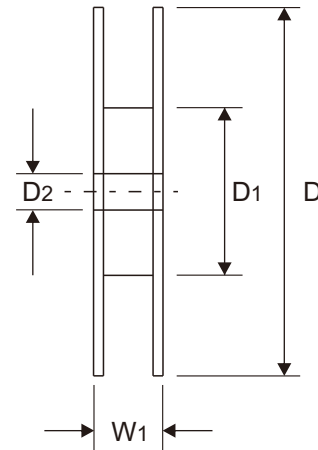
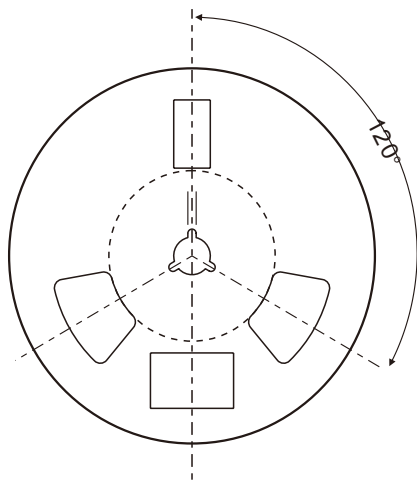
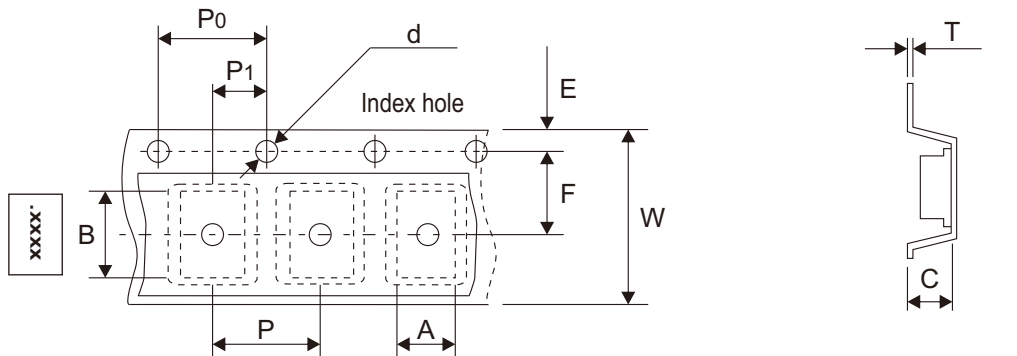


Fig.4 - Power Rating Derating Curve



## Reel Taping Specification



DFN2510-10	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.14 ± 0.05	2.64 ± 0.05	0.64 ± 0.05	1.50 + 0.10 - 0.00	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.045 ± 0.002	0.104 ± 0.002	0.025 ± 0.002	0.059 + 0.004 - 0.000	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

DFN2510-10	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.20 ± 0.05	8.00 ± 0.30	12.00 + 0.50 - 0.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.002	0.315 ± 0.012	0.472 + 0.020 - 0.000

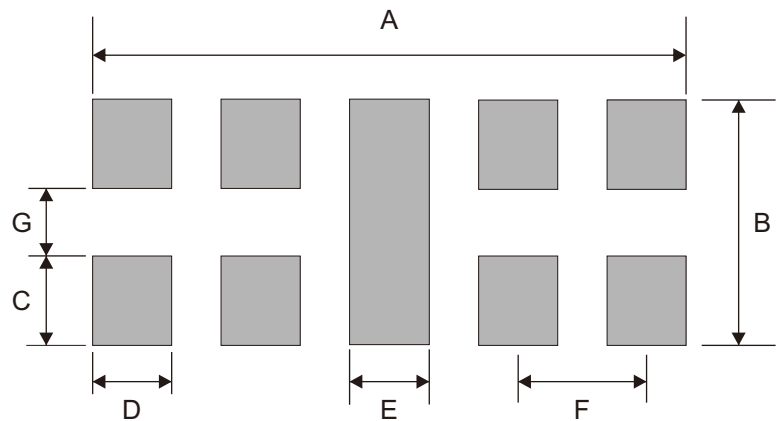
## Marking Code

Part Number	Marking Code
CPDA10C60VB-HF	.E60B



## Suggested P.C.B. PAD Layout

SIZE	DFN2510-10	
	(mm)	(inch)
A	2.25	0.089
B	1.40	0.055
C	0.615	0.024
D	0.25	0.010
E	0.40	0.016
F	0.50	0.020
G	0.17	0.007



Note: 1. The pad layout is for reference purposes only.

## Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DFN2510-10	3,000	7