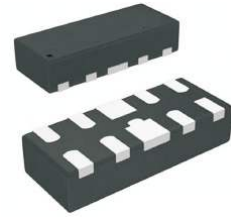


CPDA10C60VB-HF

RoHS Device

Halogen Free



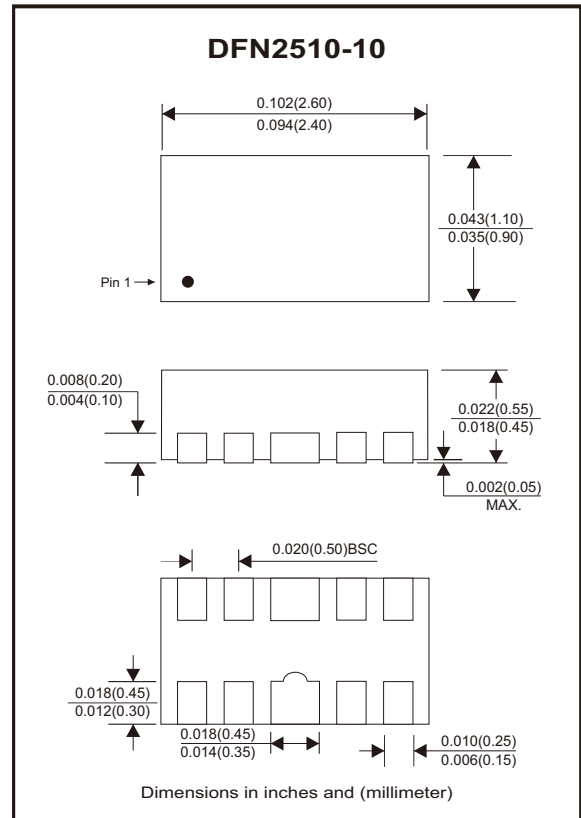
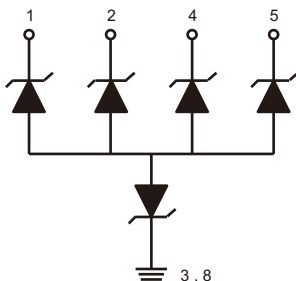
Features

- 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 _{PP} | 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 _J | -55 to +150 | °C |
| Storage temperature range | T _{STG} | -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 | $I_T = 0.001\text{mA}$, Pin 1, 2, 4, 5 to Pin 3, 8 $I_T = 1\text{mA}$, Pin 1, 2, 4, 5 to Pin 3, 8 | V_{BR} | 65 | | | V |
| Leakage current | $V_{RWM} = 60\text{V}$ Pin 1, 2, 4, 5 to Pin 3, 8 | I_R | | | 100 | nA |
| Clamping voltage | $I_{PP} = 1.8\text{A}$, $T_P = 8/20\mu\text{s}$, Pin 1, 2, 4, 5 to Pin 3, 8 | V_C | | 97 | 110 | V |
| Junction capacitance | $V_R = 0\text{V}$, $f = 1\text{MHz}$ Pin 1, 2, 4, 5 to Pin 3, 8 | C_j | | 6 | 8 | pF |

Rating and Characteristic Curves (CPDA10C60VB-HF)

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

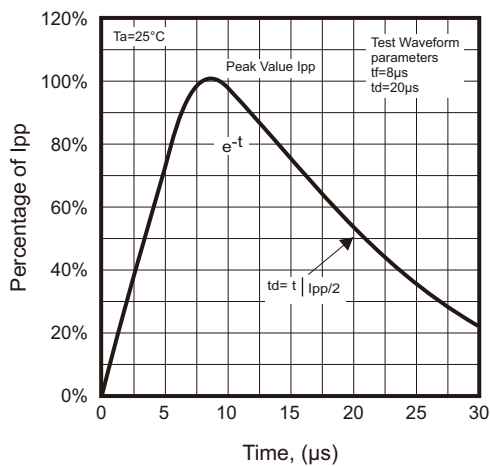


Fig.2 - Typical Capacitance Between Terminals Characteristics

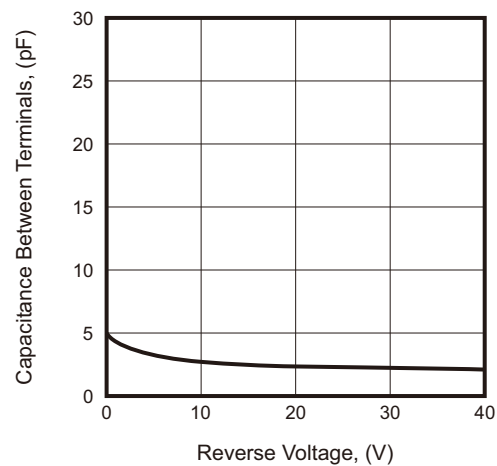


Fig.3 - Typical Clamping Voltage vs. Peak Pulse Current

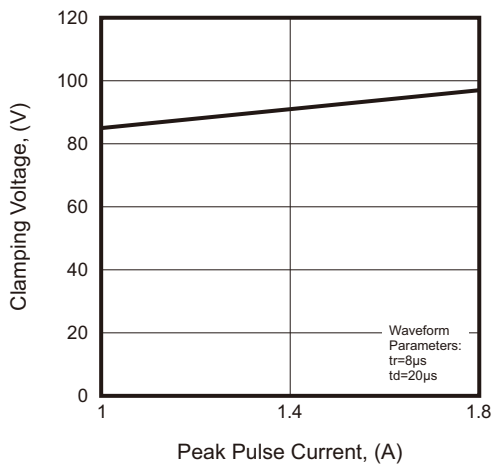
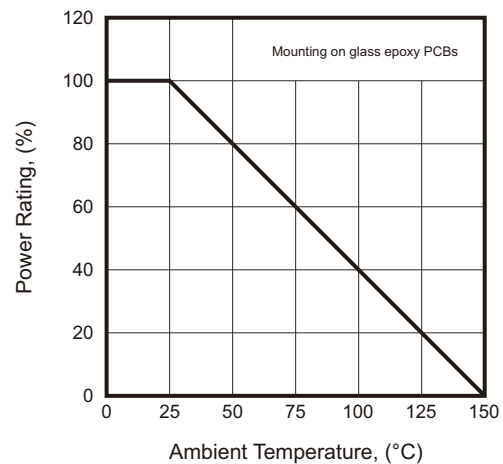
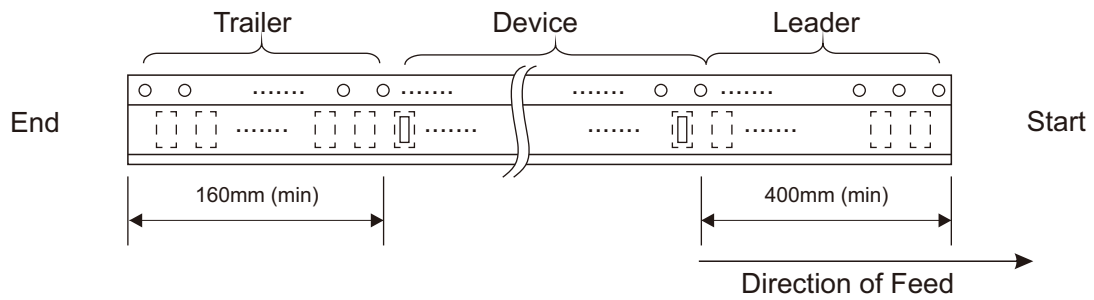
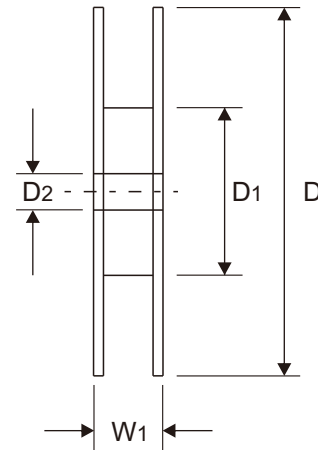
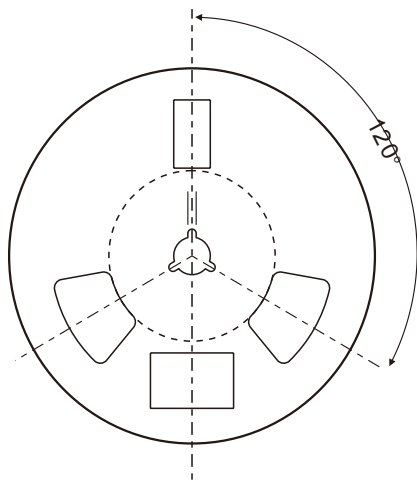
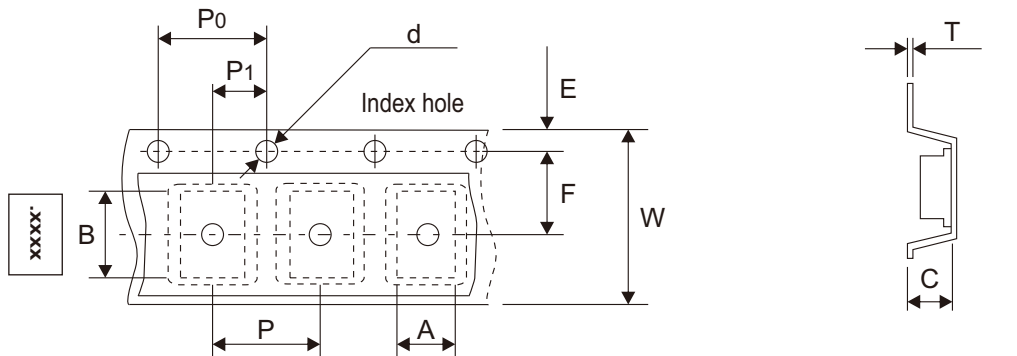


Fig.4 - Power Rating Derating Curve



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 |

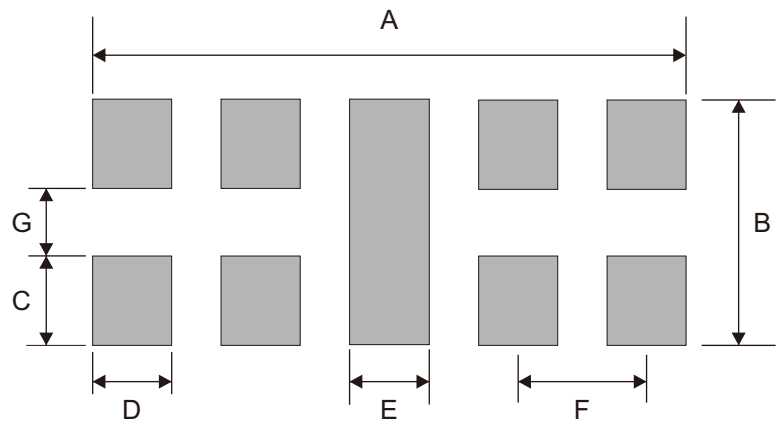
Marking Code

| 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 |