

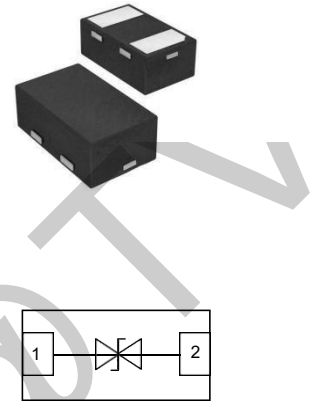
Features

- Capacitance: 10pF typical
- Reverse Working Voltage: 3.3V
- IEC 61000-4-2 (ESD Air): $\pm 30\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 30\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 8.5A

Mechanical Data

- Package: DFN1006 (1.00 x 0.60 x 0.37mm)
- Lead-free and RoHS compliant
- Small form factor

DFN1006-2L



Applications

- Cellular Phones
- Portable Devices
- Digital Cameras
- Power Supplies

Ordering information

Ordercode	Marking	Package	Packaging option	Basequantity	Packaging specification
DCE0310D2	-	DFN1006	Tape and reel	10000pcs / reel	EIA STD RS-481

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu\text{s}$)	P_{PP}	72	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	$\pm 30/\pm 30$	kV
Peak Pulse Current ($T_P = 8/20\mu\text{s}$)	I_{PP}	8.5	A
Junction Temperature	T_J	-55 to +125	°C
Operation temperature	T_{OP}	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}		-	-	3.3	V
Holding Voltage	V_{BR}	$I_T = 1\text{mA}$	5.0	5.5	6.0	V
Reverse Leakage Current	I_R	$V_{RWM} = 3.3\text{V}$	-	-	0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}, t_p = 8/20\mu\text{s}$	-	-	5	V
Clamping Voltage	V_C	$I_{PP} = 8.5\text{A}, t_p = 8/20\mu\text{s}$	-	-	8.5	V
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$	-	10	-	pF

Typical Characteristics

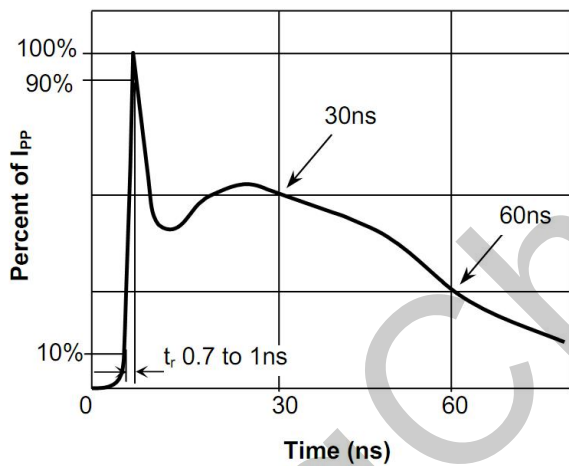


Fig.1 Pulse Waveform-ESD (IEC61000-4-2)

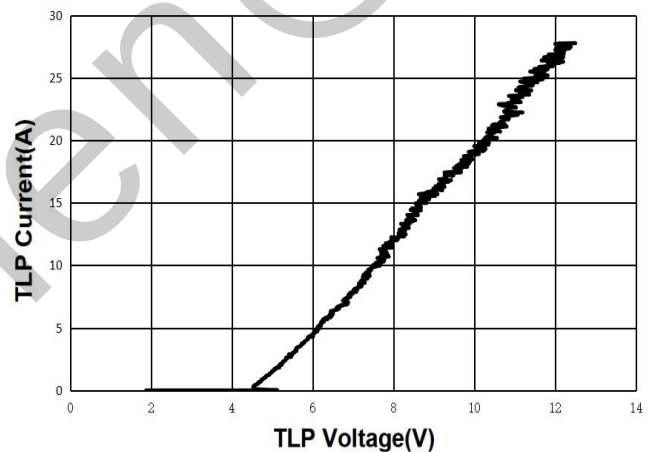


Fig.2 Transmission Line Pulse (TLP)

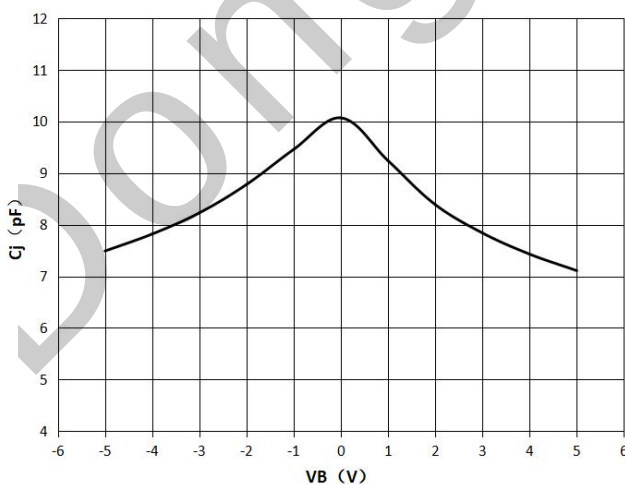


Fig.3 Capacitance vs. Reverse Voltage

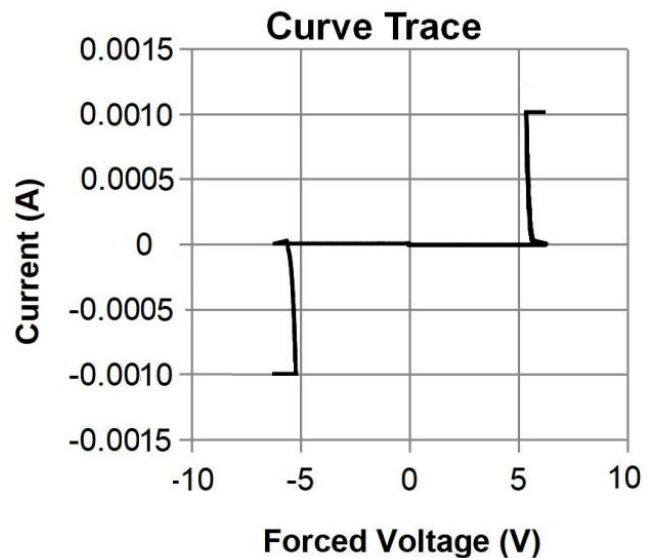
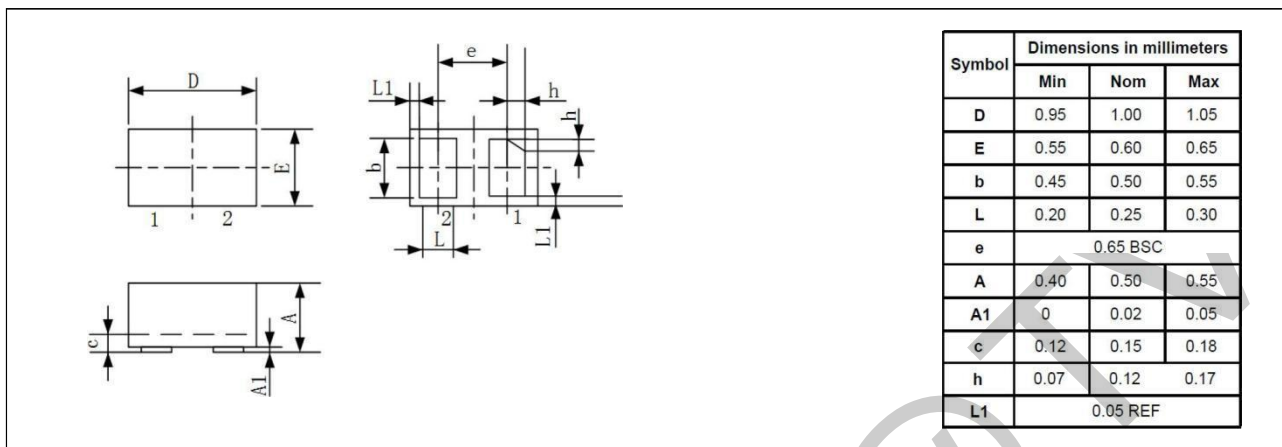
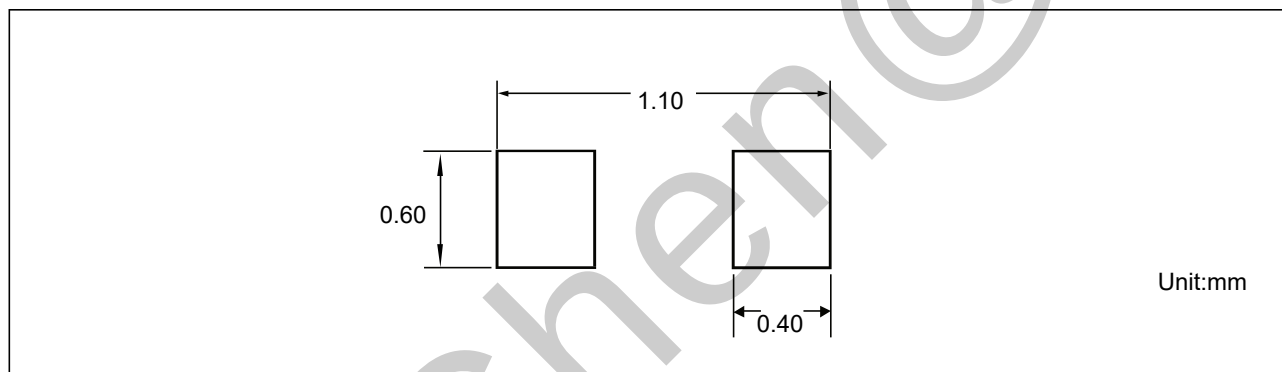


Fig.4 IV Curve (Forward Voltage)

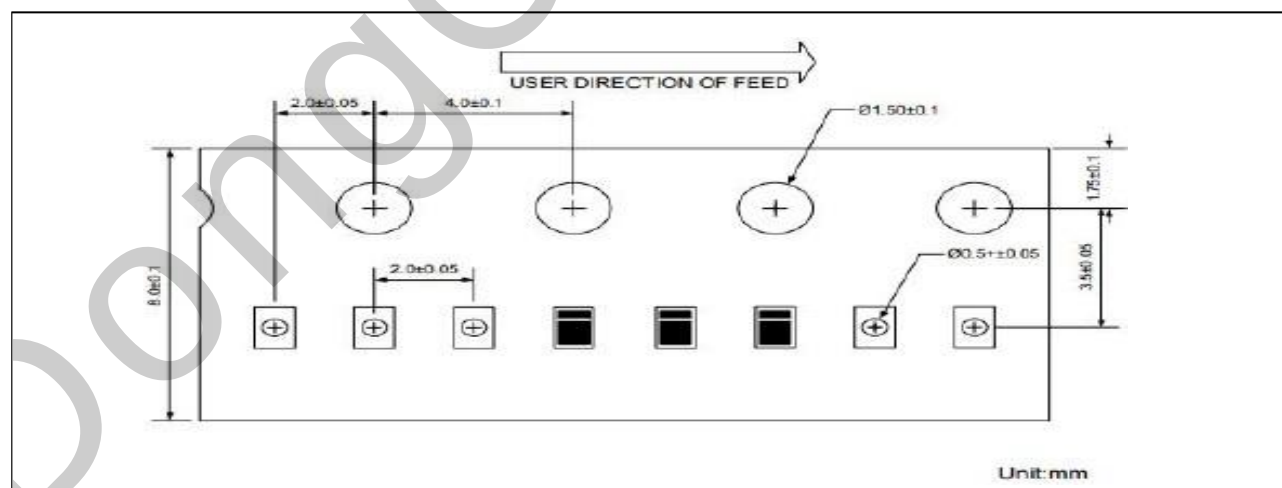
Package Dimensions



Pad Dimensions



Tape and Reel Specification



Important Notice

DongChen Electronics reserves the right to make changes without further notice to any products herein.

DongChen Electronics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does DongChen Electronics assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

“Typical” parameters which may be provided in DongChen Electronics data sheets and/or specifications can and do vary in different applications and actual performance may vary over time.

All operating parameters, including “Typicals,” must be validated for each customer application by the customer’s technical experts.

DongChen Electronics does not convey any license under its patent rights nor the rights of others.

The products listed in this document are designed to be used with ordinary electronic equipment or devices.

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, aerospace machinery, nuclear-reactor controllers, fuel controllers, and other safety devices), please be sure to consult with our sales representative in advance.

Head Office

Contact Information:

DongChen Electronics Co.,Ltd.

Address: 2F., No.407, Sec. 2, Longgang Rd.,Zhongli Dist.,
Taoyuan City 32097, Taiwan (R.O.C.)

Tel: 03-284-1808

Fax: 03-284-1404

Mail:dc@dongchen.com.tw

Web:www.dongchen.com.tw