

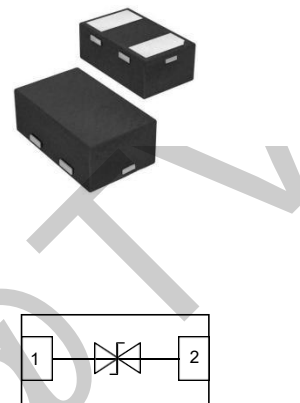
Features

- Capacitance: 20pF (typ.)
- Reverse Working Voltage: 7V
- 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 $\times$ 0.60 $\times$ 0.37mm)
- Bi-directional ESD protection
- Delivery: 7" T&R, 10,000pcs

DFN1006-2L



Applications

- Cell phone handsets and accessories
- Notebooks, desktops, and servers
- Portable instrumentation
- Cordless phones
- Digital cameras
- Peripherals

Ordering information

Ordercode	Marking	Package	Packaging option	Basequantity	Packaging specification
DCE0710D2	-	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}	120	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 +150	°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}		-	-	7.0	V
Holding Voltage	V_{BR}	$I_T = 1\text{mA}$	7.5	8.0	8.6	V
Reverse Leakage Current	I_R	$V_{RWM} = 7\text{V}$	-	-	0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}, t_p = 8/20 \mu\text{s}$	-	-	8	V
Clamping Voltage	V_C	$I_{PP} = 8.5\text{A}, t_p = 8/20 \mu\text{s}$	-	-	15	V
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$	-	20	-	pF

Typical Characteristics

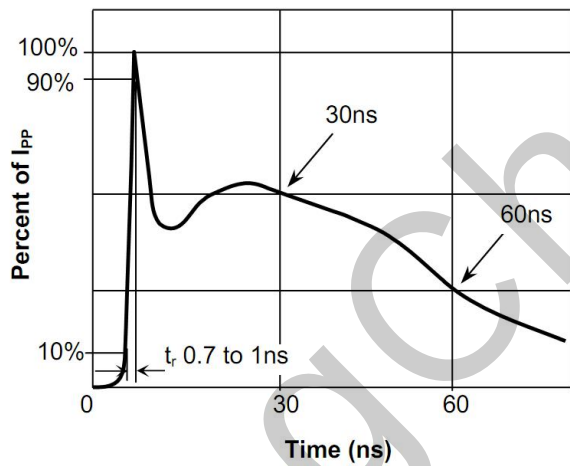


Fig.1 Pulse Waveform-ESD (IEC61000-4-2)

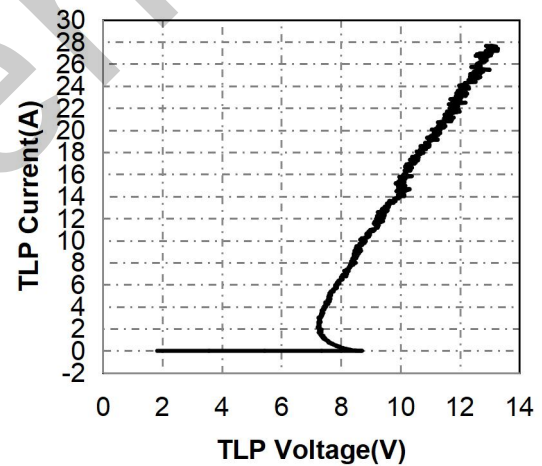


Fig.2 Transmission Line Pulse (TLP)

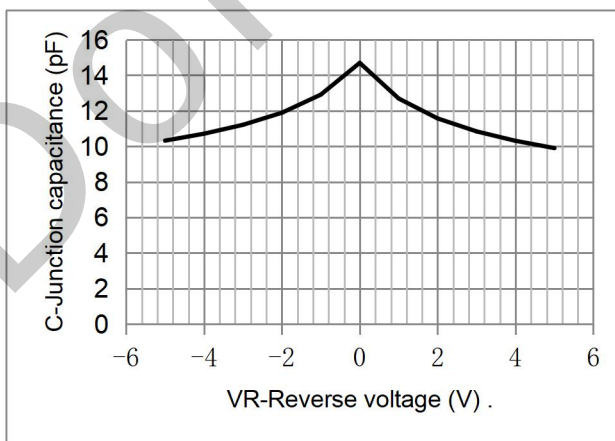


Fig.3 Capacitance vs. Reverse Voltage

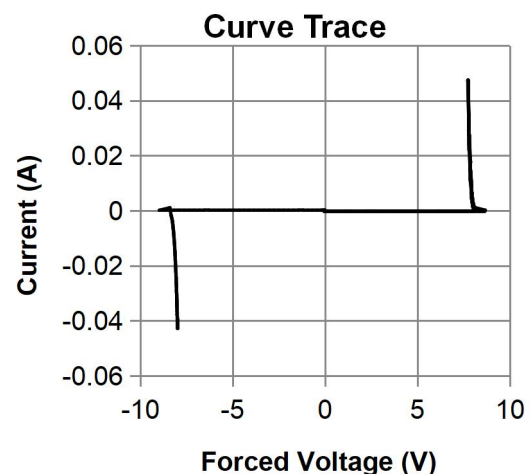
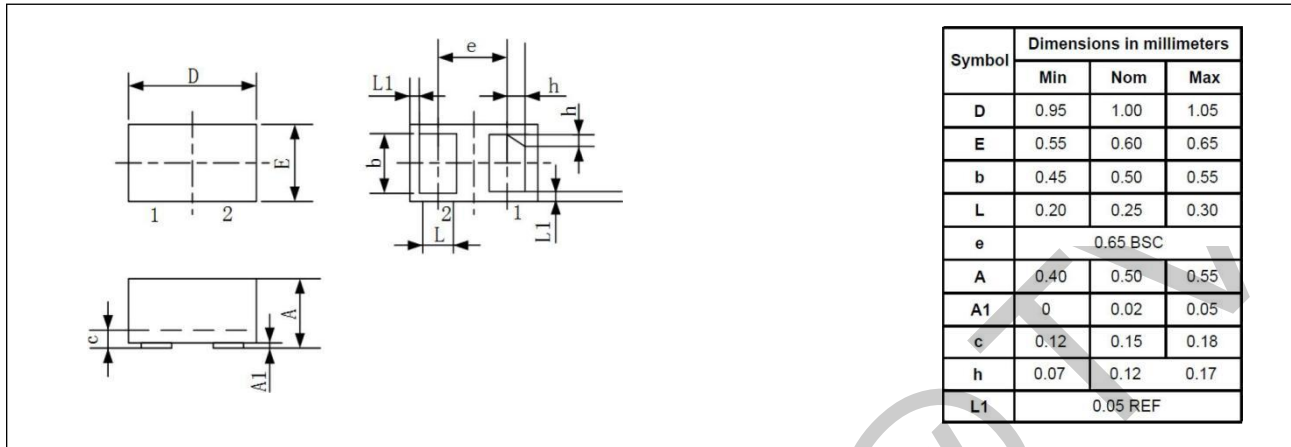
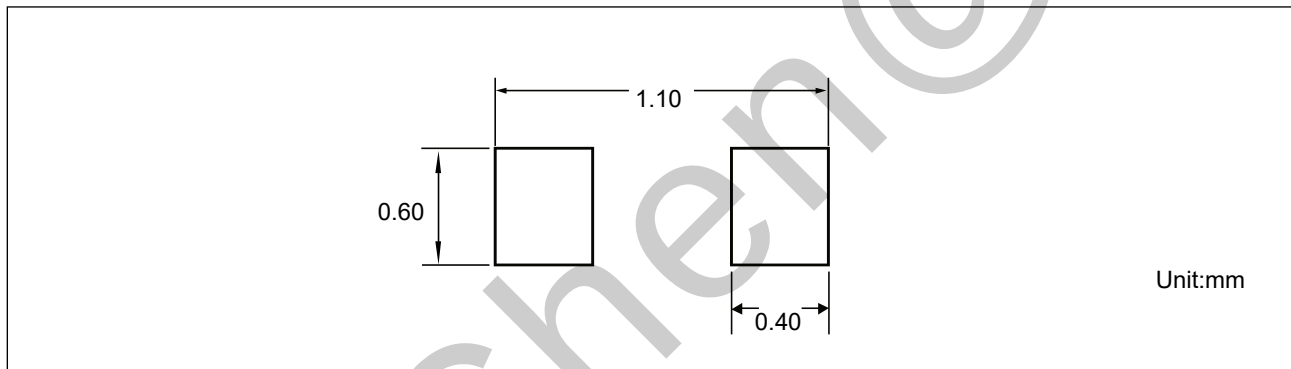


Fig.4 IV Curve (Forward Voltage)

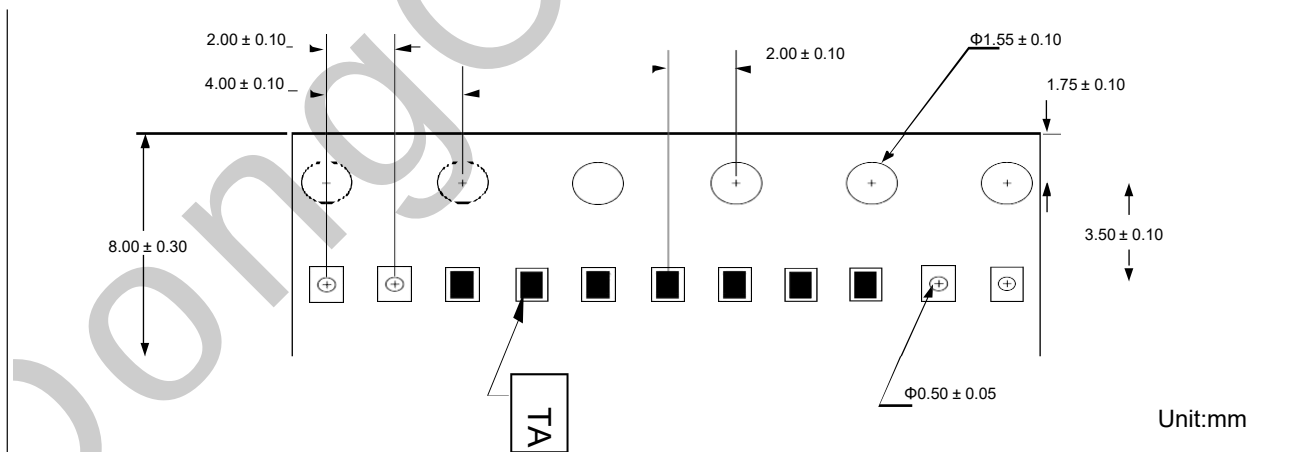
Package Dimensions



Pad Dimensions



Tape and Reel Specification



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