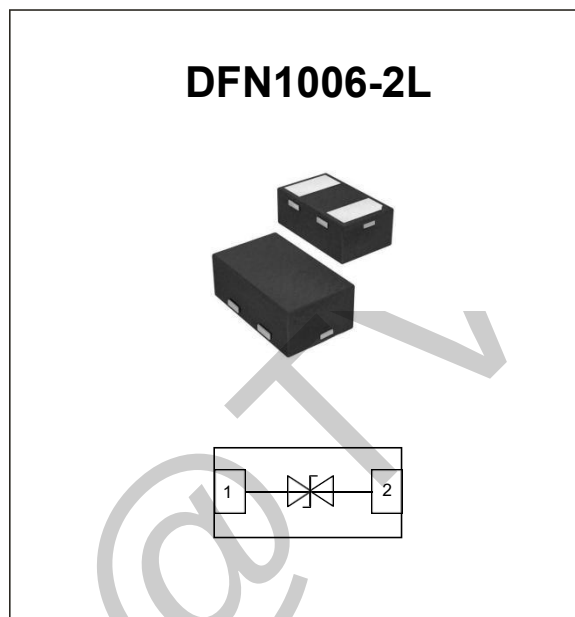


Features

- Reverse stand-off voltage: 5V max
- IEC 61000-4-2 (ESD): $\pm 30\text{kV}$ (contact and air discharge)
- IEC 61000-4-5 (surge): 8.5A (8/20 μs)
- Capacitance: $C_J = 15\text{pF}$ typ.
- Low leakage current: $I_R < 100\text{nA}$ typ.
- Small DFN1006-2L package

Mechanical Data

- Package: DFN1006-2L
- Bi-directional TVS protection
- Small form factor



Applications

- Cellular Handsets
- Tablets
- Laptops
- Other portable devices
- Network communication devices

Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
DCE0510D2	PB	DFN1006-2L	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}	85	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	125	°C
Operation temperature	T_{OP}	-40~125	°C
Storage temperature	T_{STG}	-55~150	°C

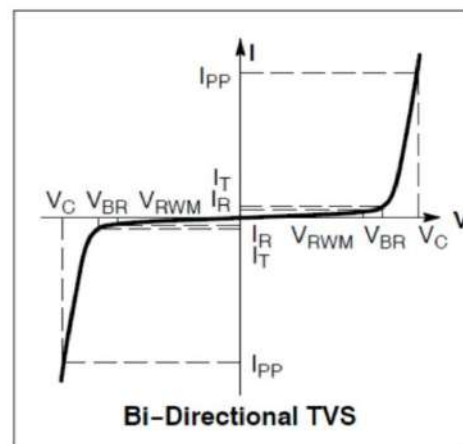
Electrical Characteristics

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

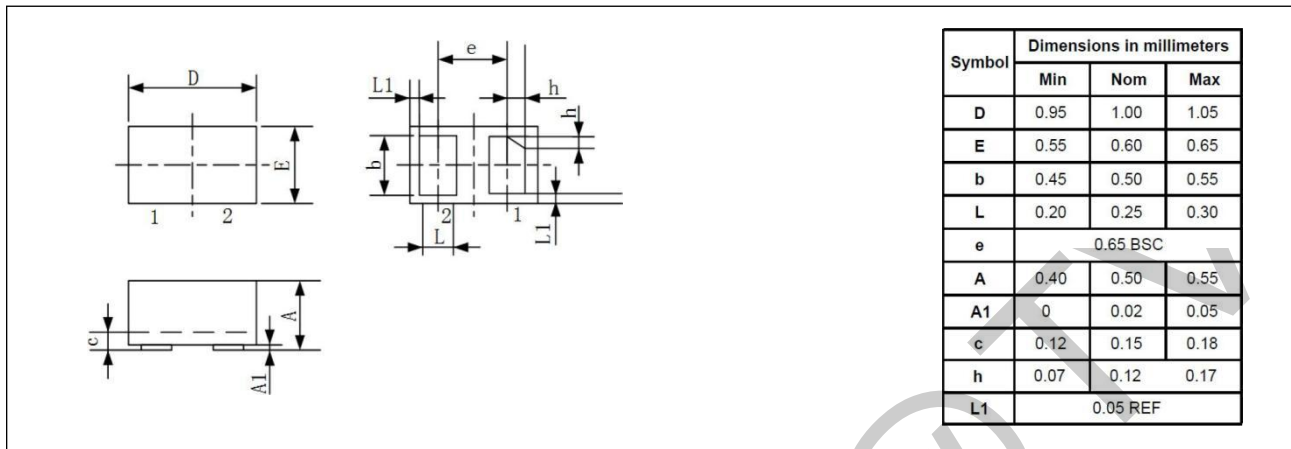
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}		-	-	5	V
Holding Voltage	V_{BR}	$I_T = 1\text{mA}$	5.6	-	8.4	V
Reverse Leakage Current	I_R	$V_{RWM} = 5\text{V}$	-	-	0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}, t_p = 8/20 \mu\text{s}$	-	-	6.5	V
Clamping Voltage	V_C	$I_{PP} = 8.5\text{A}, t_p = 8/20 \mu\text{s}$	-	-	10	V
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$	-	15	18	pF

Electrical characteristics ($T_A = 25^\circ\text{C}$, unless otherwise noted)

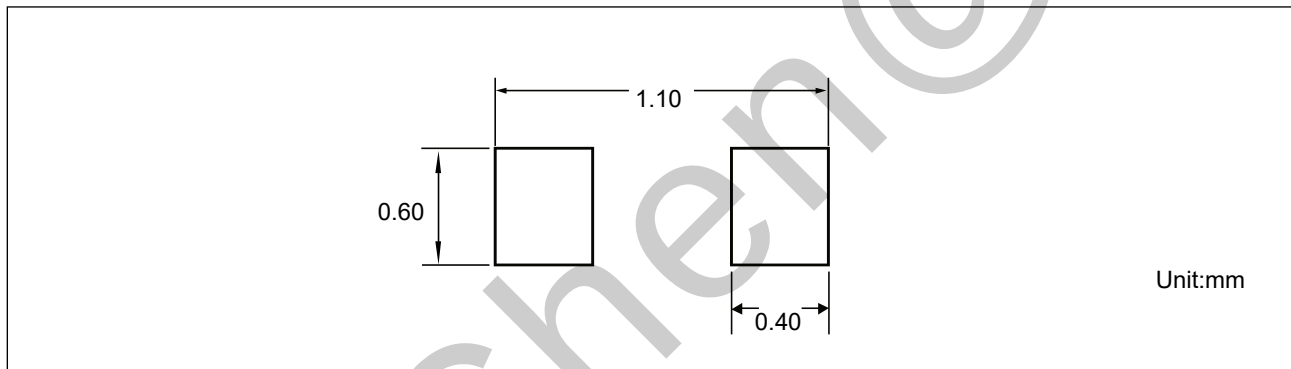
Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
P_{pk}	Peak Power Dissipation
C	Capacitance @ $V_R = 0$ and $f = 1.0\text{ MHz}$



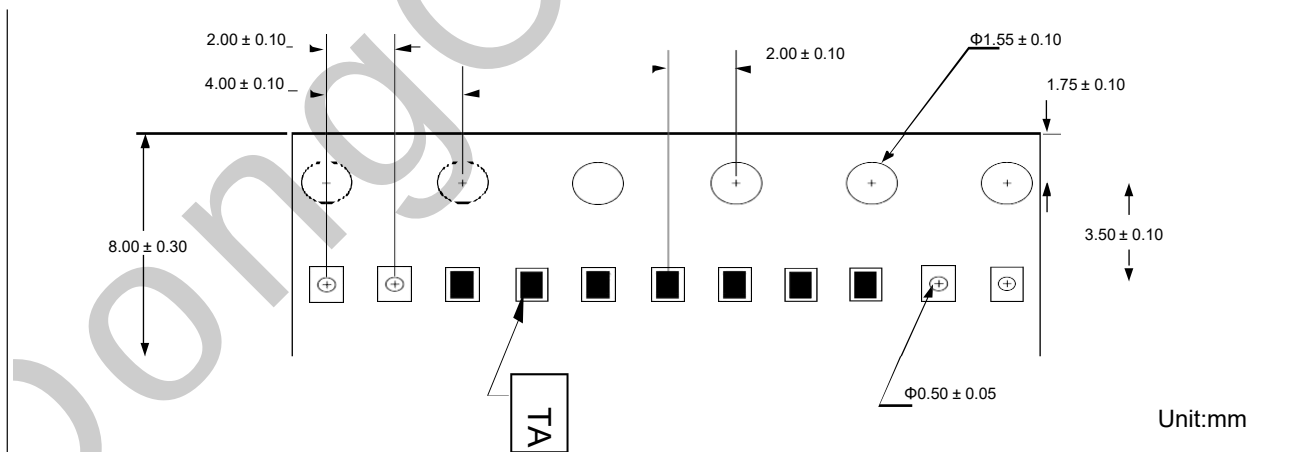
Package Dimensions



Pad Dimensions



Tape and Reel Specification



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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.

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