

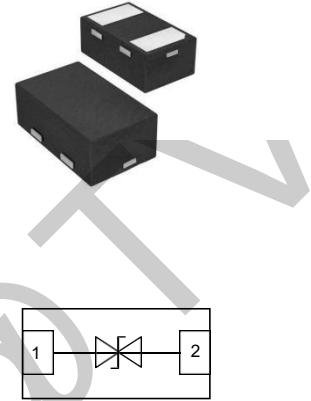
Features

- Miniaturized packaging: $1.0 \times 0.6\text{mm}$ for high-density applications
- Standard Capacitance: 9.5 pF
- Low Clamping Voltage: $V_C = 24\text{V}$ @ IPP = 4A
- Reverse Working Voltage: 12.0V
- Low Leakage current
- Response Time < 1 ns

Mechanical Data

- Package: DFN1006-2L ($1.0 \times 0.6\text{mm}$)
- Pb-Free package
- Bi-directional ESD protection design
- Marking: 2C

DFN1006-2L



Applications

- Smartphones, tablet computers
- Blu-ray and DVD recorders and players
- Video equipment and accessories

Ordering information

Ordercode	Marking	Package	Packaging option	Base quantity	Packaging specification
DCE12VS10B	2C	DFN1006-2L	Tape and reel	10000pcs / reel	EIA STD RS-481

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

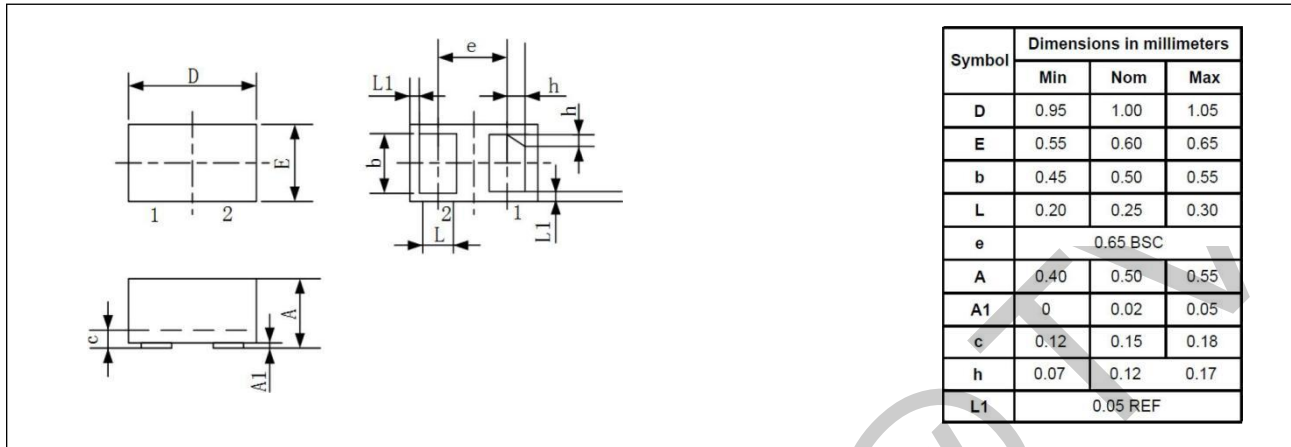
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu\text{s}$)	P_{PP}	100	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	$\pm 30/\pm 30$	kV
Junction Temperature	T_J	-55~150	°C
Storage temperature	T_{STG}	-55~150	°C

Electrical Characteristics

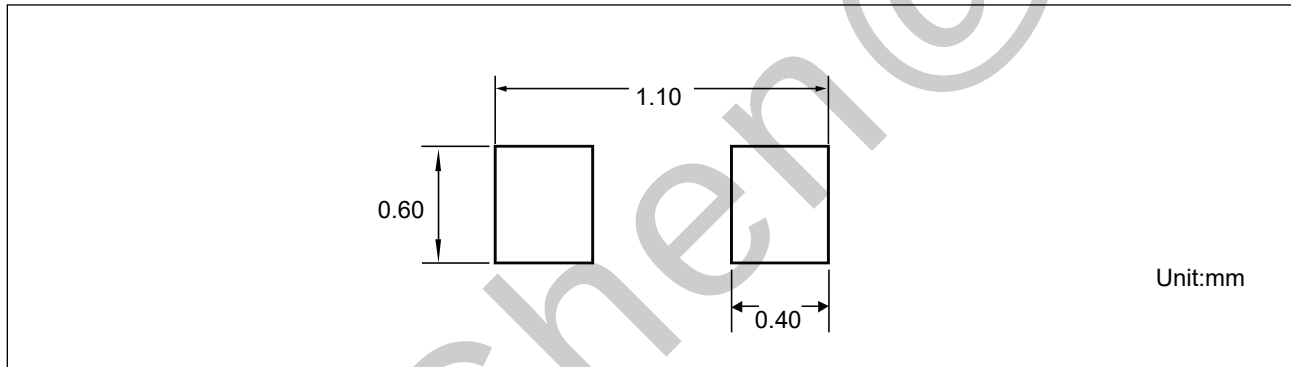
 (T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V _{RWM}		-	12.0	-	V
Holding Voltage	V _{BR}	I _T = 1mA	13.3	-	16.0	V
Reverse Leakage Current	I _R	V _{RWM} = 12V	-	-	0.1	uA
Clamping Voltage	V _C	I _{PP} = 1A, t _p = 8/20 μs	-	9	13	V
Clamping Voltage	V _C	I _{PP} = 4A, t _p = 8/20 μs	-	22	24	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz	-	4.25	4.75	pF

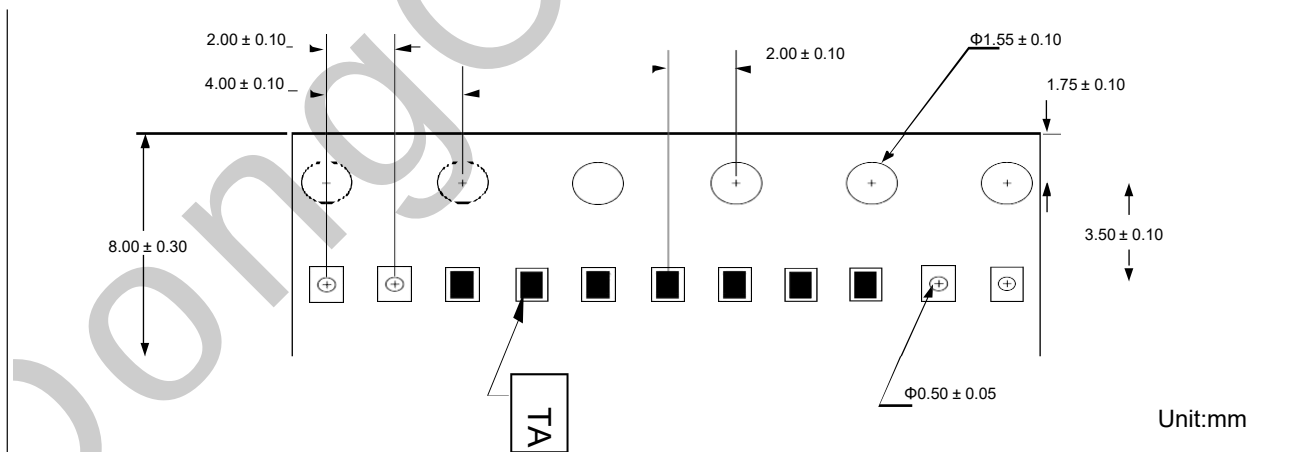
Package Dimensions



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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