

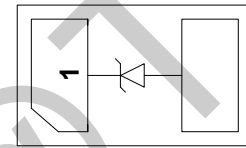
Features

- Ultra small package: $1.0 \times 0.6 \times 0.5\text{mm}$
- Protects one data or power line
- Ultra low leakage: nA level
- Operating voltage: 36V
- Low clamping voltage
- 2-pin leadless DFN1006-2 package
- IEC 61000-4-2 (ESD): Air $\pm 30\text{kV}$, Contact $\pm 25\text{kV}$
- IEC 61000-4-5 (Lightning): 4A (8/20 μs)
- RoHS Compliant and Halogen Free
- Moisture Sensitivity: Level 3 per J-STD-020

Mechanical Data

- Package: DFN1006-2 ($1.0 \times 0.6 \times 0.5\text{mm}$)
- 2-pin leadless package
- Case Material: "Green" Molding Compound
- Terminal Finish: NiPdAu
- Marking: 6P (Device Marking Code)

DFN1006-2L



Circuit and Pin Schematic

Applications

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation
- Digital Cameras
- Peripherals
- Audio Players
- Keypads, Side Keys, LCD Displays

Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
DCE3610D2U	6P	DFN1006-2	Tape and reel	10000pcs / reel	EIA STD RS-481

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

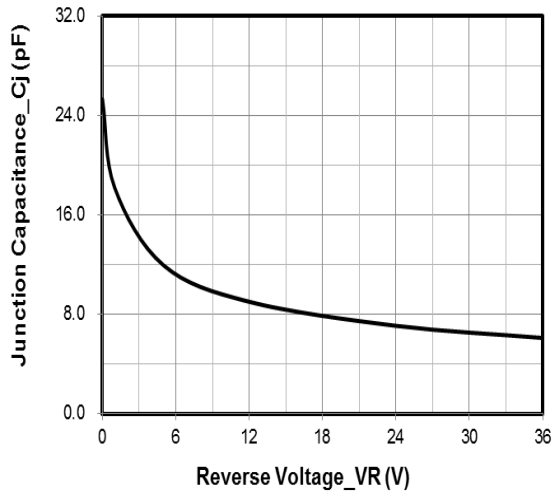
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu\text{s}$)	P_{PP}	300	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	$\pm 25/\pm 30$	kV
Peak Pulse Current ($T_P = 8/20\mu\text{s}$)	I_{PP}	4	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

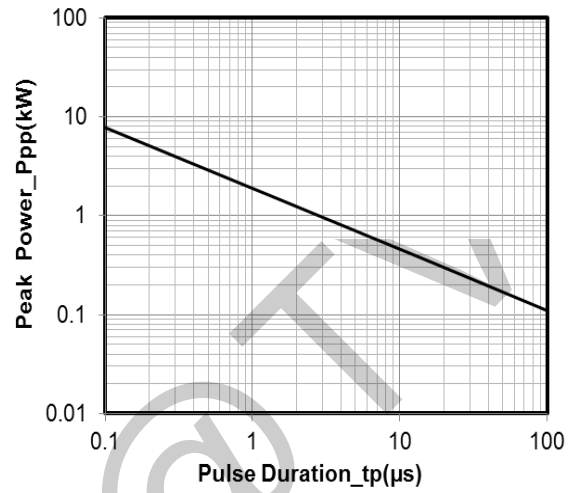
 (T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V _{RWM}		-	36	-	V
Holding Voltage	V _{BR}	I _T = 1mA	38	-	-	V
Reverse Leakage Current	I _R	V _{RWM} = 36V	-	-	0.2	uA
Clamping Voltage	V _C	I _{PP} = 1A, t _p = 8/20 μs	-	-	50	V
Clamping Voltage	V _C	I _{PP} = 4A, t _p = 8/20 μs	-	-	75	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz	-	-	30	pF

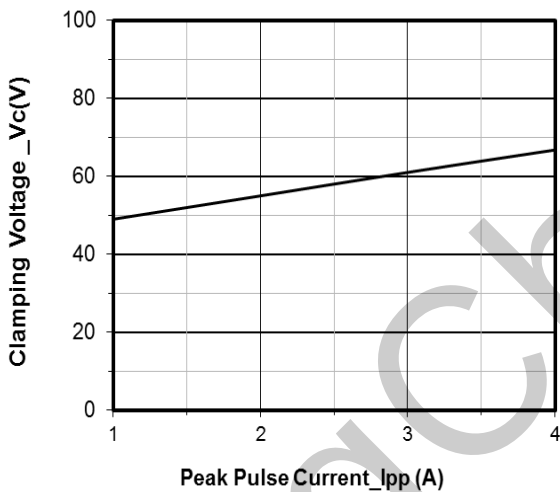
Typical Performance Characteristics (TA=25°C unless otherwise Specified)



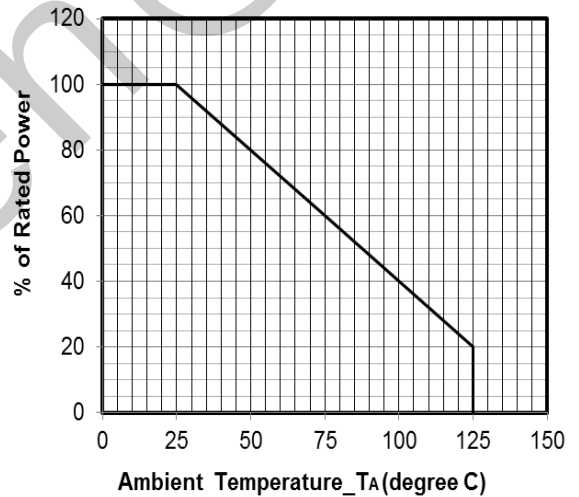
Junction Capacitance vs. Reverse Voltage



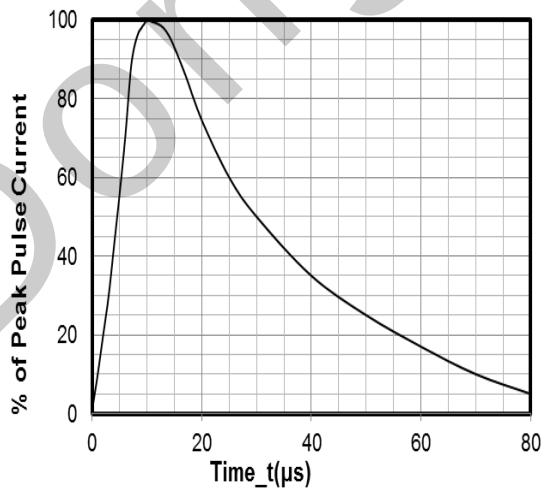
Peak Pulse Power vs. Pulse Time



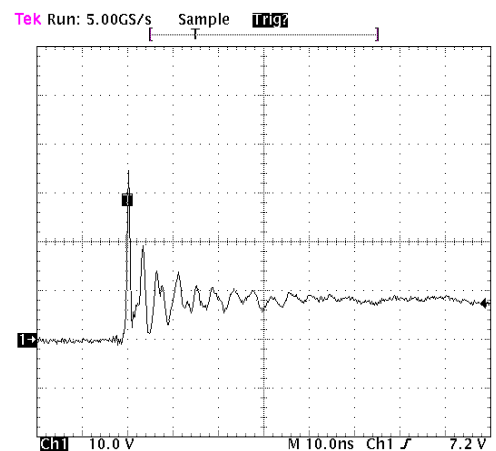
Clamping Voltage vs. Peak Pulse Current



Power Derating Curve



8 X 20μs Pulse Waveform

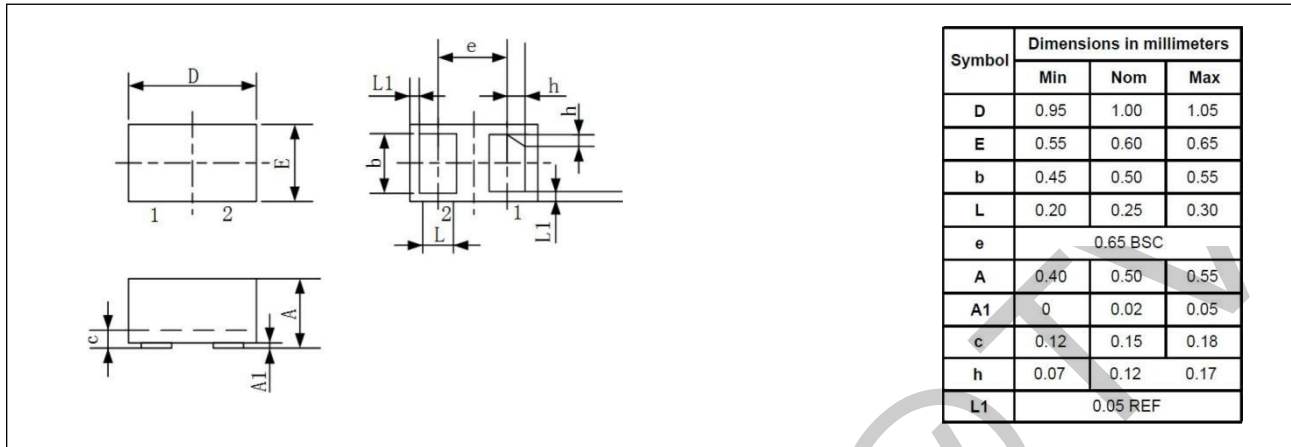


Note: Data is taken with a 10x attenuator

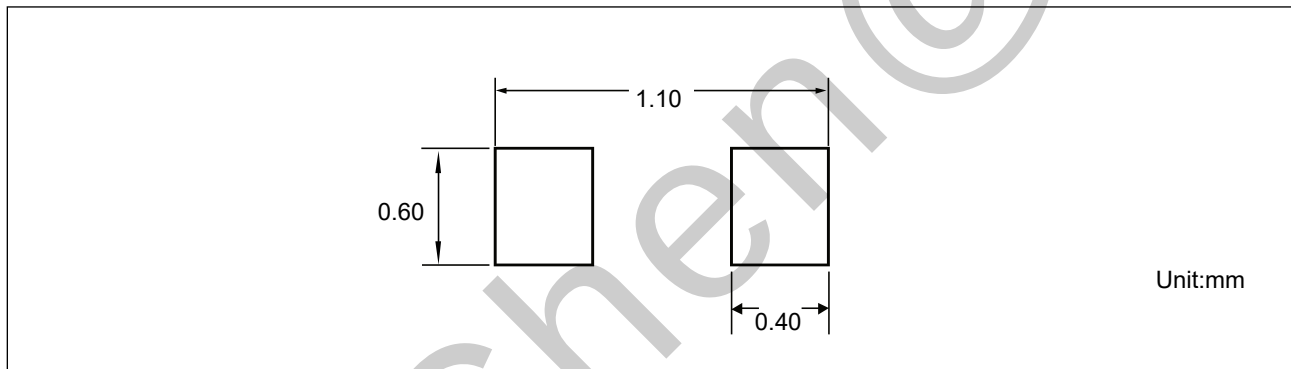
ESD Clamping Voltage

+8 kV Contact per IEC61000-4-2

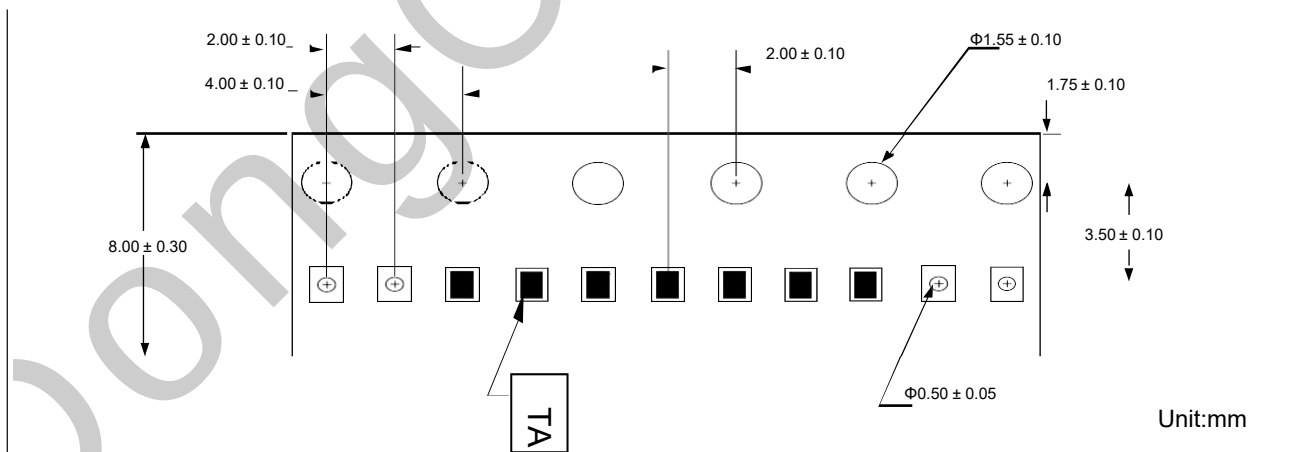
Package Dimensions



Pad Dimensions



Tape and Reel Specification



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