

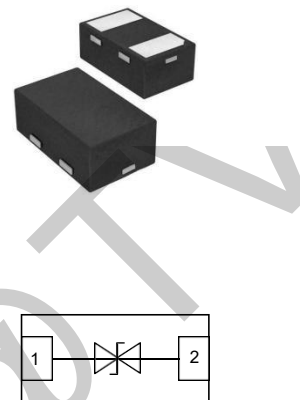
Features

- Ultra small package: $1.0 \times 0.6 \times 0.5\text{mm}$
- Ultra low capacitance: 2.5pF typical
- Ultra low leakage: nA level
- Low operating voltage: 5V
- Low clamping voltage
- 2-pin leadless package
- IEC 61000-4-2 (ESD): Air $\pm 15\text{kV}$, Contact $\pm 8\text{kV}$
- IEC 61000-4-5 (Lightning): 2A (8/20 μs)
- RoHS Compliant

Mechanical Data

- Package: DFN1006-2 ($1.0 \times 0.6 \times 0.5\text{mm}$)
- 2-pin leadless 0402 package
- Bi-directional TVS protection
- Marking: 88 (Device Marking Code)

DFN1006-2L



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
DCE0512D2	88	DFN1006-2	Tape and reel	10000pcs / reel	EIA STD RS-481

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

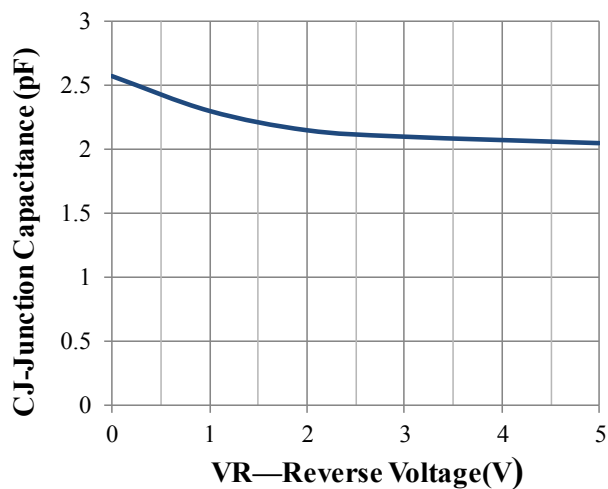
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu\text{s}$)	P_{PP}	30	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	$\pm 8/\pm 15$	kV
Peak Pulse Current ($T_P = 8/20\mu\text{s}$)	I_{PP}	2	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

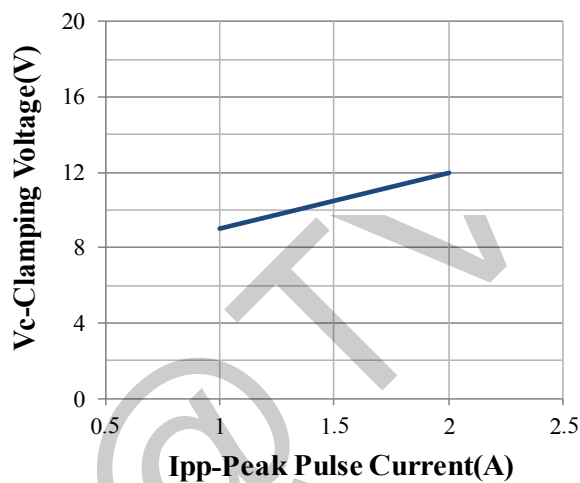
($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}		-	-	5.0	V
Holding Voltage	V_{BR}	$I_T = 1\text{mA}$	6.0	-	-	V
Reverse Leakage Current	I_R	$V_{RWM} = 5\text{V}$	-	-	0.2	μA
Clamping Voltage	V_C	$I_{PP} = 2\text{A}, t_p = 8/20\text{ }\mu\text{s}$	-	-	15.0	V
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$	-	2.5	3	pF

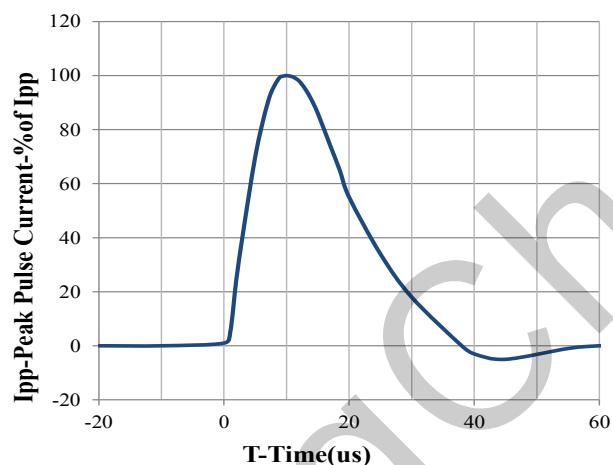
Typical Performance Characteristics (T_A=25°C unless otherwise Specified)



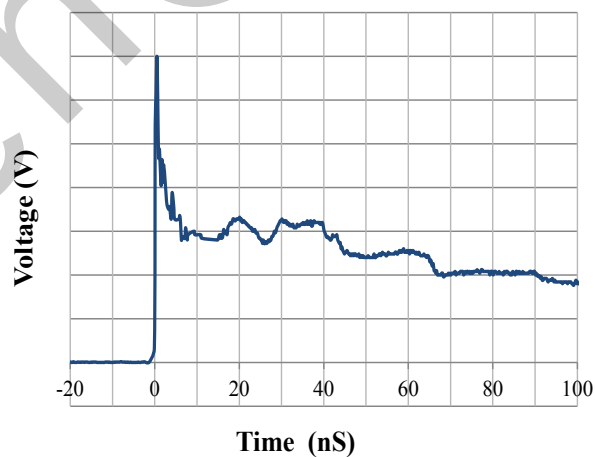
Junction Capacitance vs. Reverse Voltage



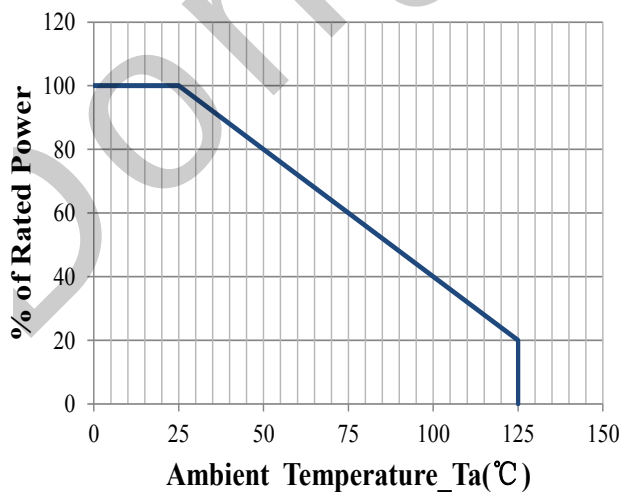
Clamping Voltage vs. Peak Pulse Current



8 X 20us Pulse Waveform

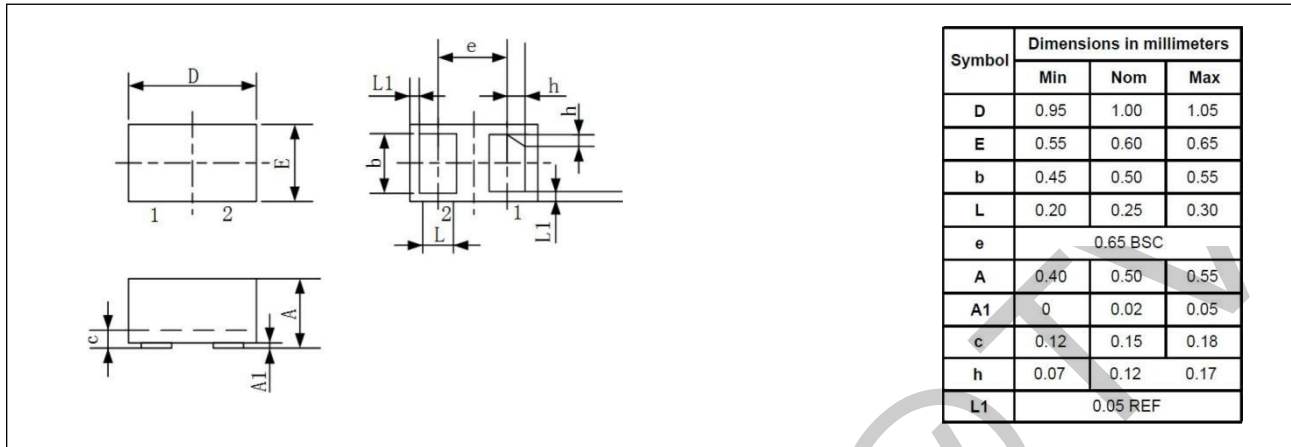


IEC61000-4-2 Pulse Waveform

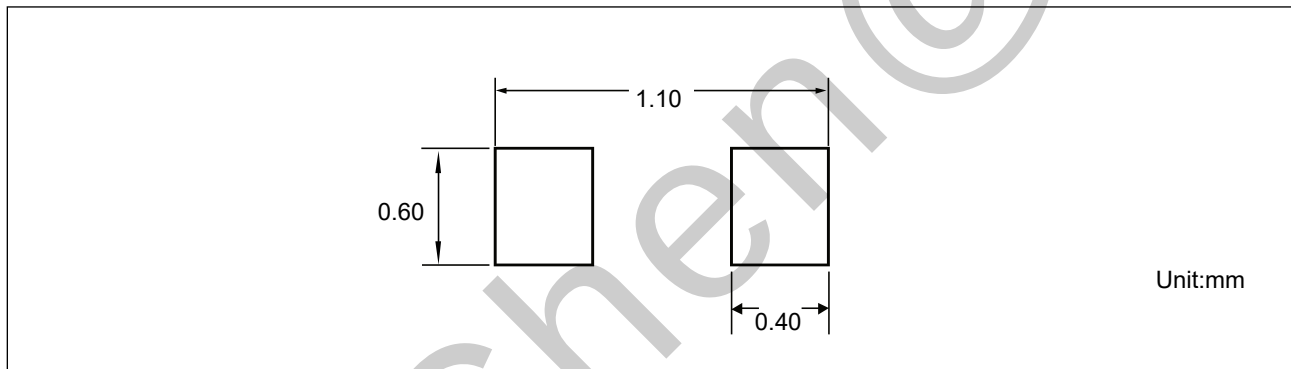


Power Derating Curve

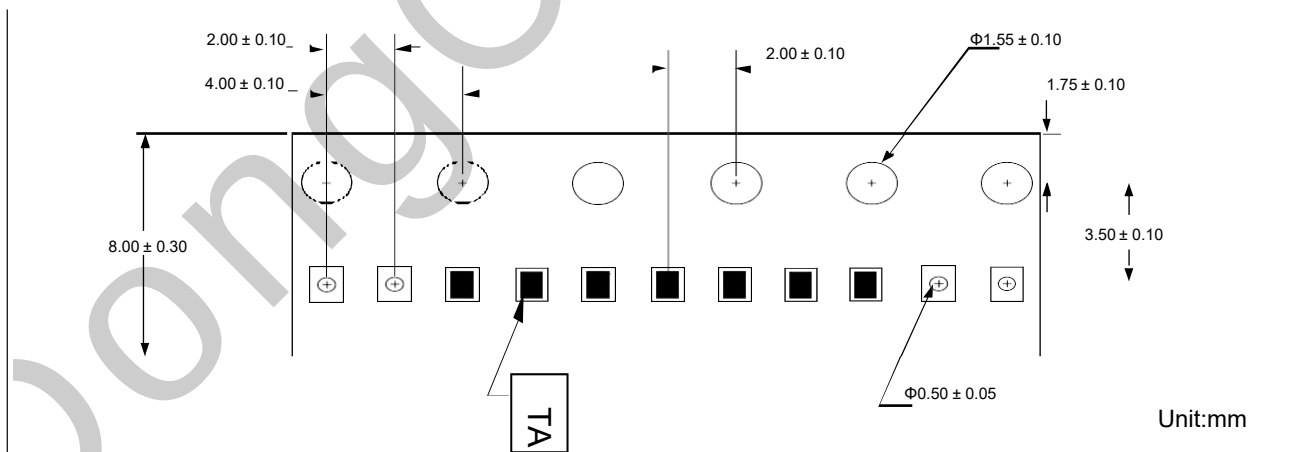
Package Dimensions



Pad Dimensions



Tape and Reel Specification



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