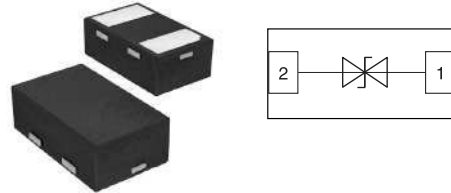




Features

- DFN1006-2 package
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Medium capacitance ($C_j=15\text{pF}$ typ.)
- Protection one data/power line to:
 - IEC 61000-4-2 $\pm 30\text{kV}$ contact $\pm 30\text{kV}$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns) IEC
 - 61000-4-5 (Lightning) 8A (8/20 μs)



Mechanical Data

- **Case:** DFN1006-2 (plastic package).
Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

Applications

- Audio Line, Speaker, Headset, Microphone Protection
- Human Interface Devices (Keyboard, Touchpad, Buttons)

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}	30/30	kV
Peak Pulse Current ($T_P = 8/20\mu\text{s}$)	I_{PP}	8	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

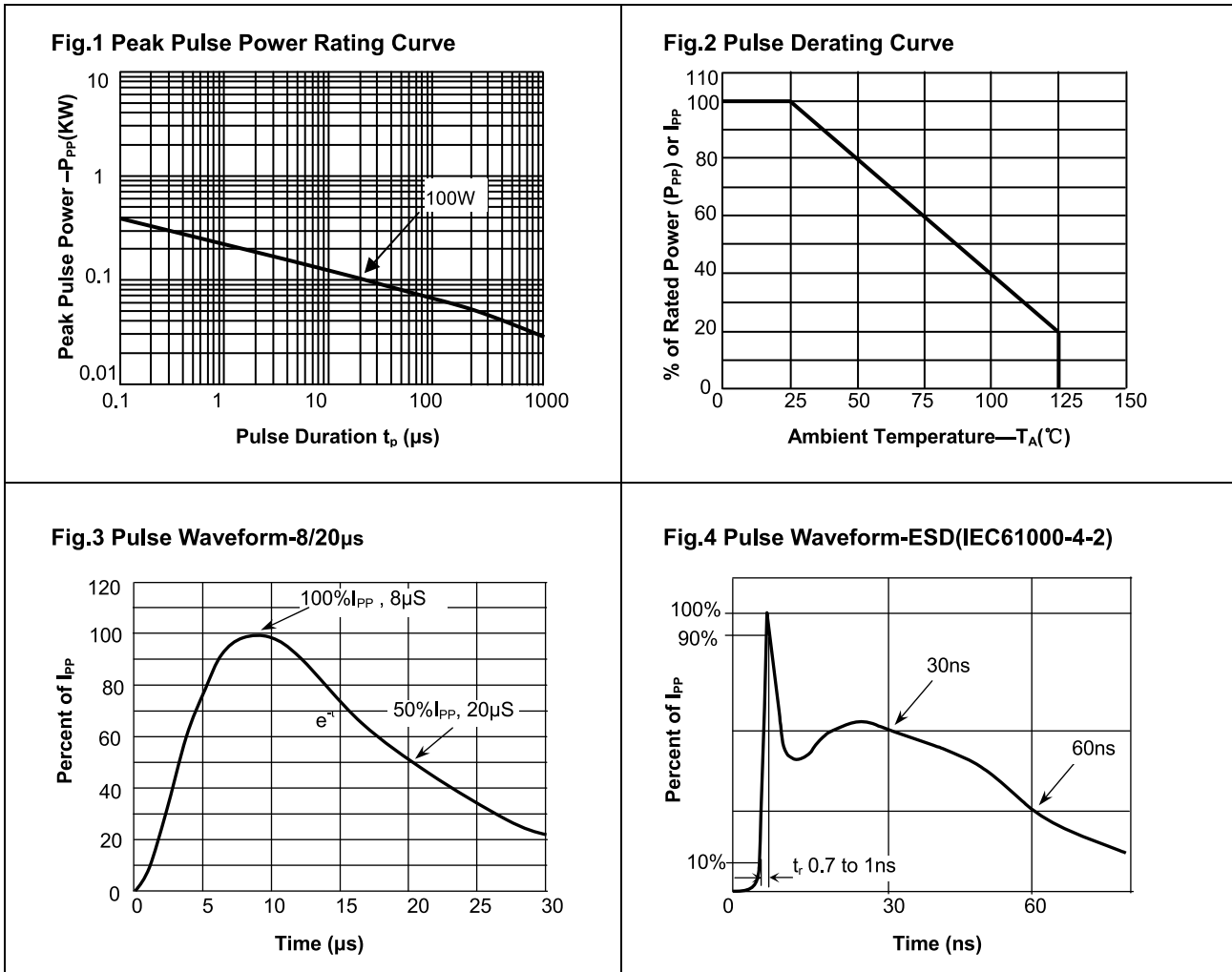
Electrical Characteristics

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

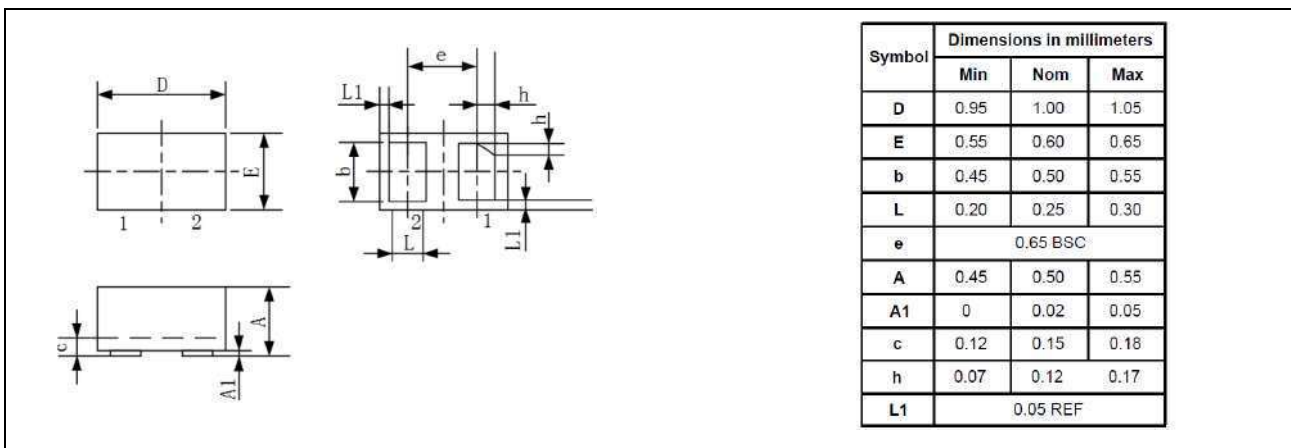
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	5.6			V
Reverse Leakage Current	I_R	$V_R=5\text{V}$			1.0	μA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP}=8\text{A}$		13		V
Clamping Voltage (IEC 61000-4-2)	V_C	$V_{ESD}=8\text{kV}$		11		V
Junction Capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$		15		pF



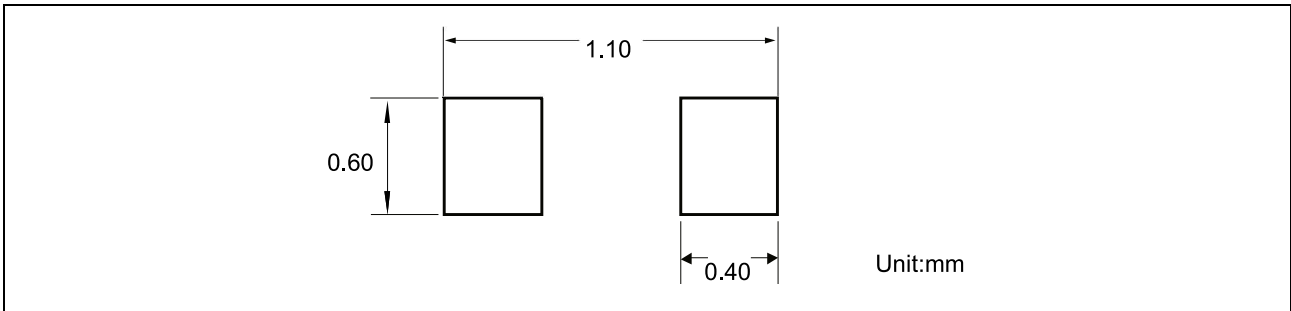
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



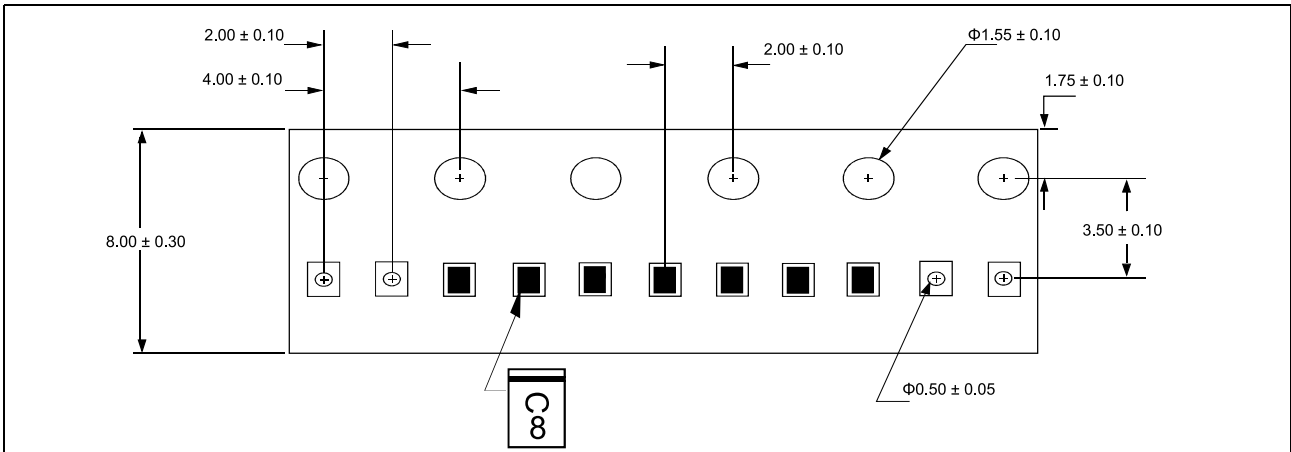
Package Dimensions



Pad Dimensions



Tape and Reel Specification



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDD1020508AB	DFN1006-2	Tape and reel	10000pcs / reel	EIA STD RS-481