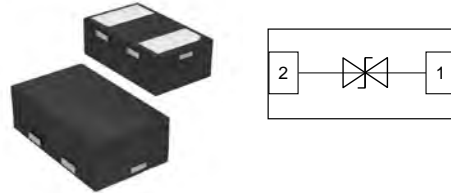


Features

- 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:
 - ISO 10605 $\pm 15\text{kV}$ contact $\pm 25\text{kV}$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 7.5A (8/20 μs)
- AEC-Q101 Qualified



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

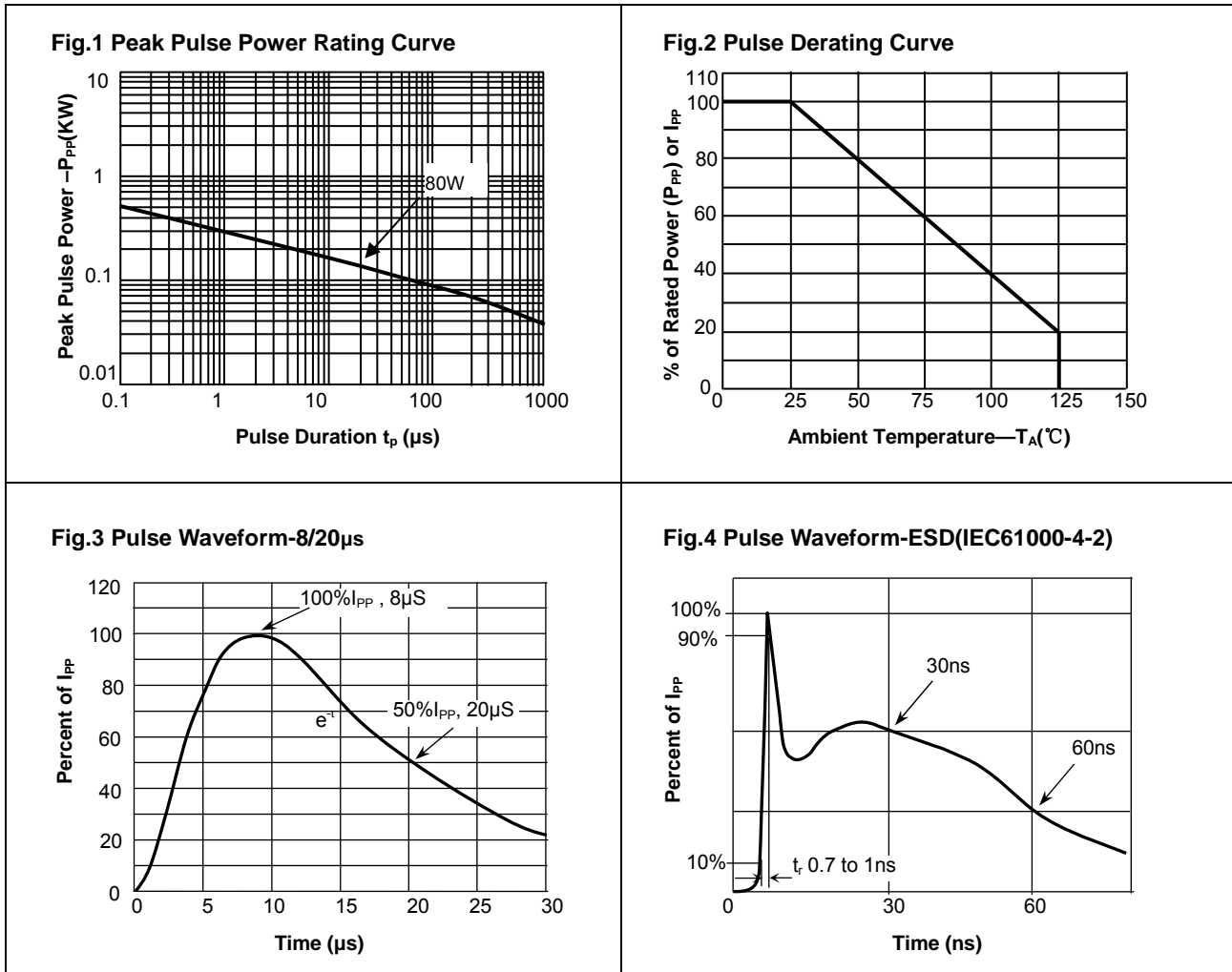
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu\text{s}$)	P_{PP}	80	W
ESD contact/air discharge (ISO 10605)	V_{ESD}	15/25	kV
Peak Pulse Current ($T_P = 8/20\mu\text{s}$)	I_{PP}	7.5	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

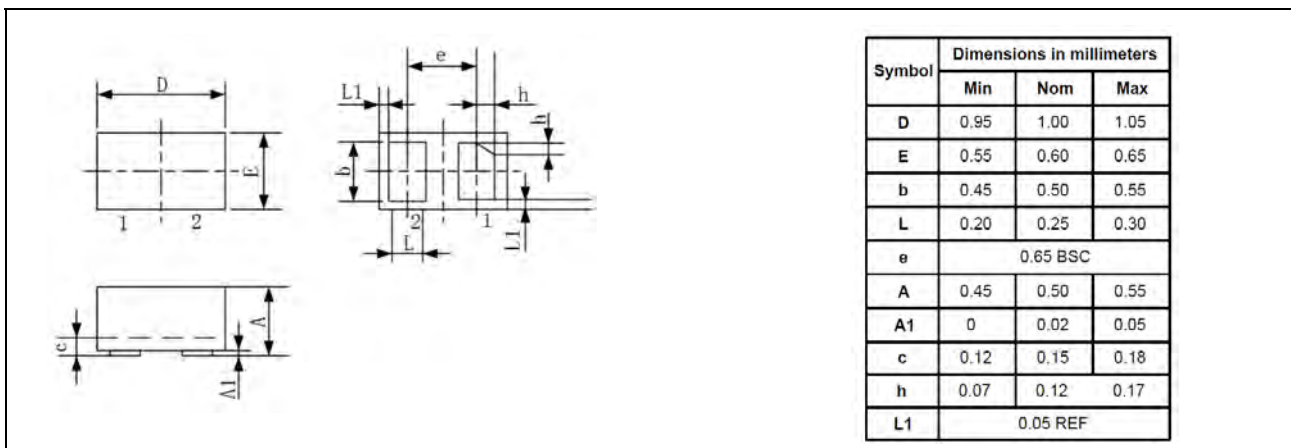
($T_A = 25\text{ °C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	5.2			V
Reverse Leakage Current	I_R	$V_R=5\text{V}$			1.0	μA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP}=7.5\text{A}$		10	13	V
Clamping Voltage (IEC 61000-4-2)	V_C	$V_{ESD}=8\text{kV}$		10		V
Junction Capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$		15		pF

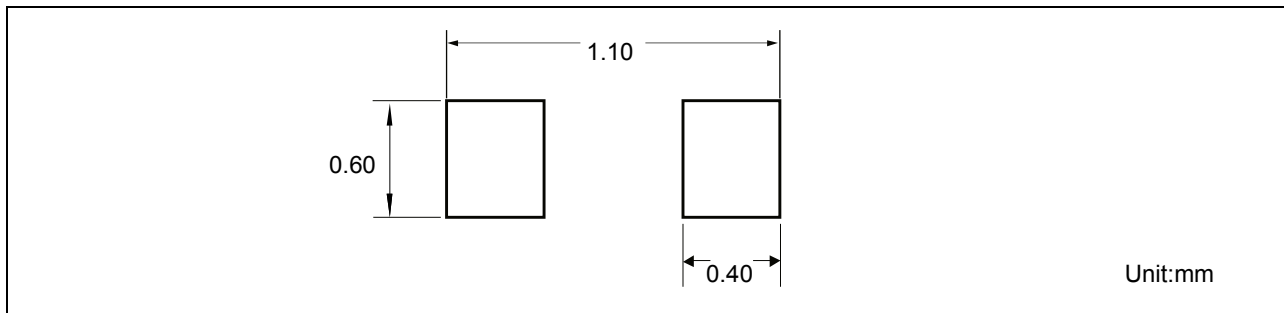
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



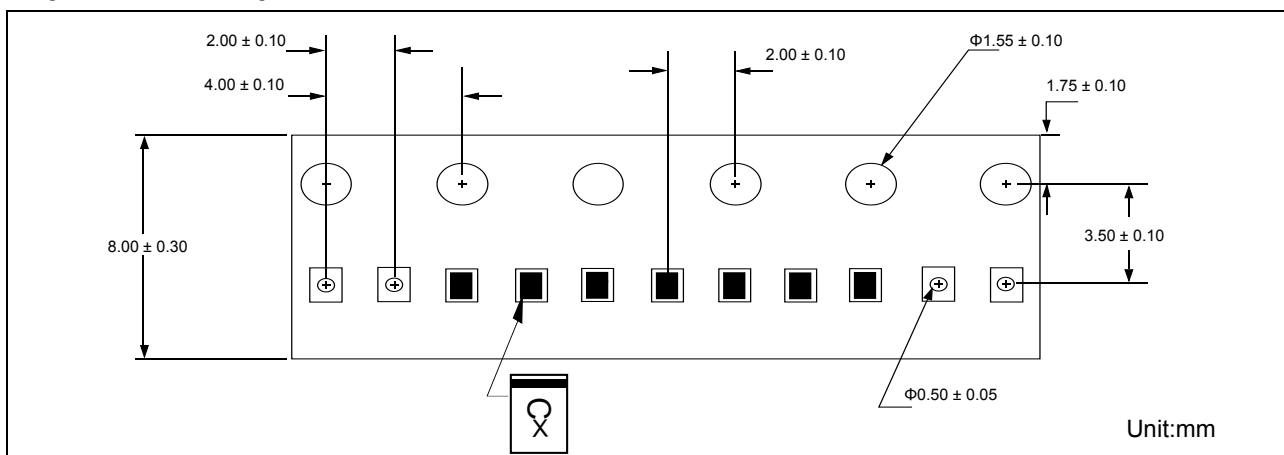
Package Dimensions



Pad Dimensions



Tape and Reel Specification



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDD102057A5H	DFN1006-2	Tape and reel	10000pcs / reel	EIA STD RS-481