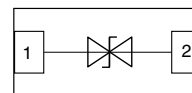


Features

- 500Watts peak pulse power ($T_P = 8/20\mu s$)
- DFN1006-2 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Normal capacitance ($C_j = 130pF$ typ.)
- Protection one data/power line to:
 - IEC 61000-4-2 $\pm 30kV$ contact $\pm 30kV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 42A (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

- Microprocessor based equipment
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation
- Digital Cameras
- Portable Instrumentation

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P = 8/20\mu s$)	P_{PP}	500	W
ESD contact/air discharge (ISO10605)	V_{ESD}	30/30	kV
Peak Pulse Current ($T_P = 8/20\mu s$)	I_{PP}	42	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

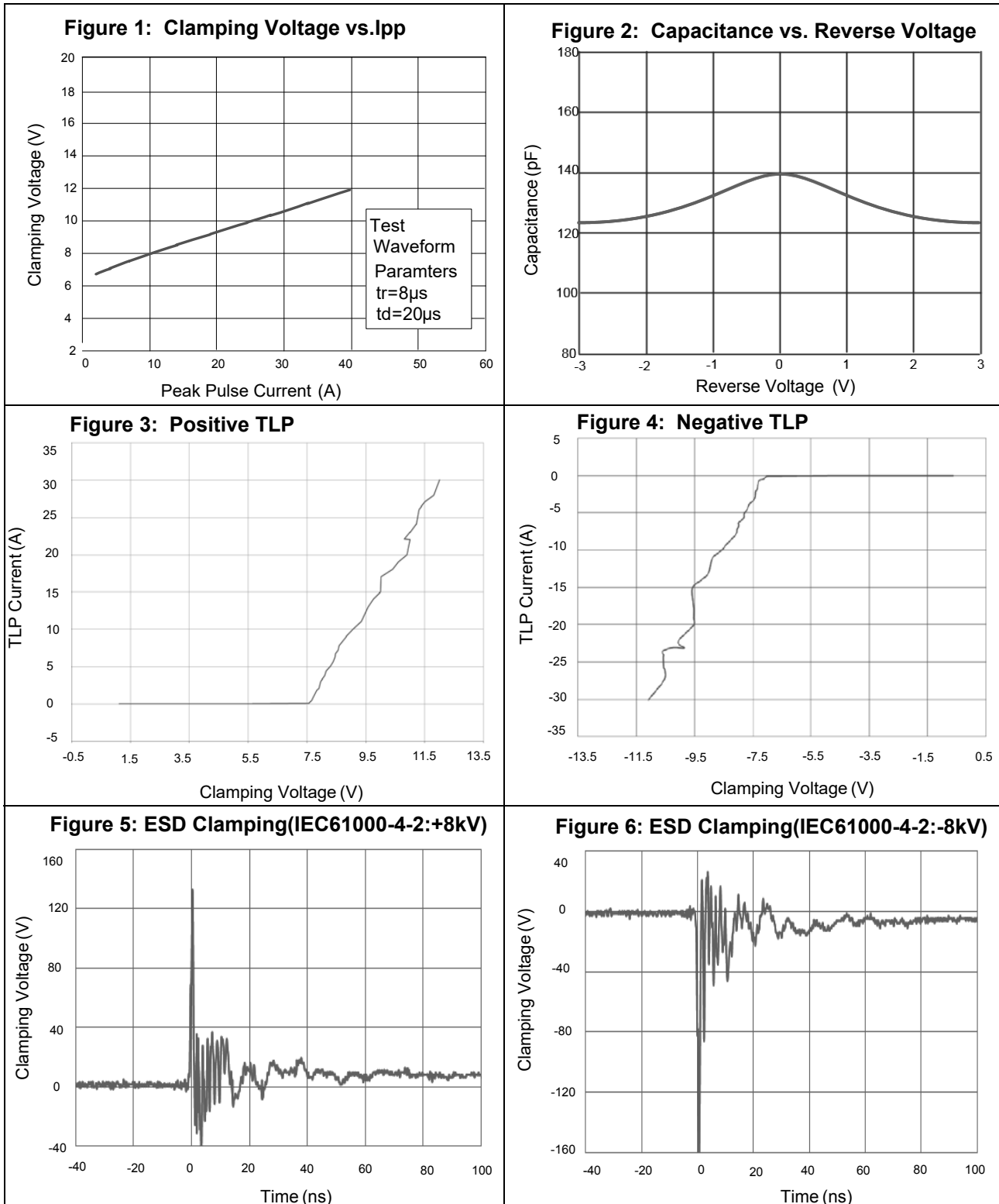
Electrical Characteristics

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

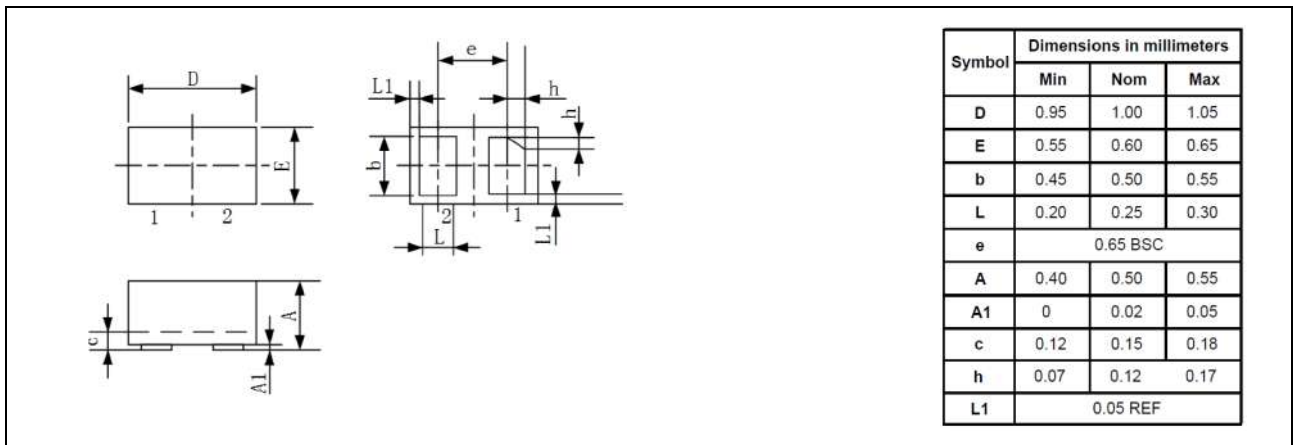
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$	6.5			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V$		0.1	0.5	uA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 42A$			12	V
Clamping Voltage (TLP)	V_C	$I_{TLP} = 8A$		8		V
Clamping Voltage (TLP)	V_C	$I_{TLP} = 16A$		9.5		V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		130		pF



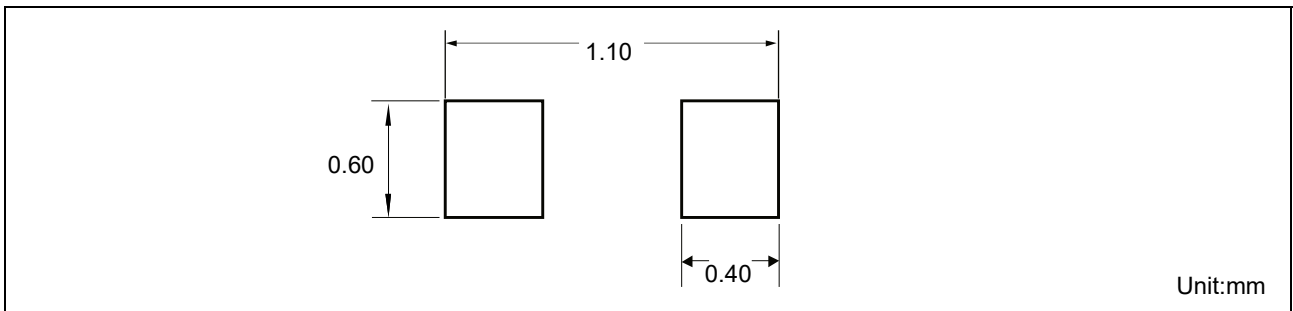
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



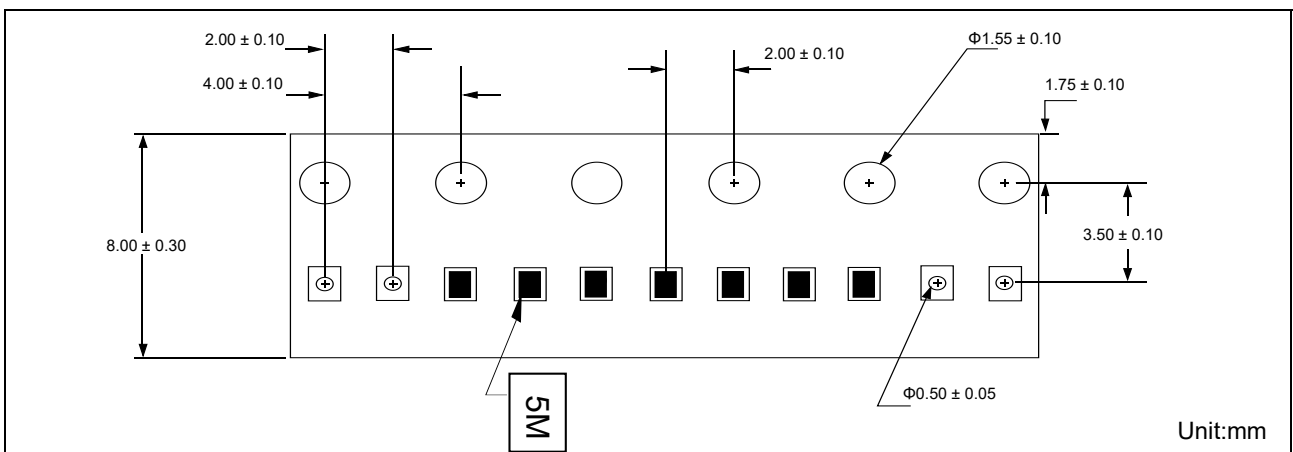
Package Dimensions



Pad Dimensions



Tape and Reel Specification



Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
YEDD1020542AH	5M	DFN1006-2	Tape and reel	10000pcs / reel	EIA STD RS-481