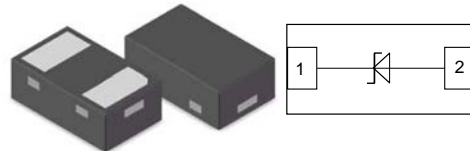


### Features

- 40Watts peak pulse power ( $T_p = 8/20\mu s$ )
- DFN1006-2 package
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- Ultra Low capacitance ( $C_j=0.5pF$  typ.)
- Protection one data/power line to:
  - IEC 61000-4-2  $\pm 15kV$  contact  $\pm 15kV$  air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 3A (8/20 $\mu s$ )



### 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

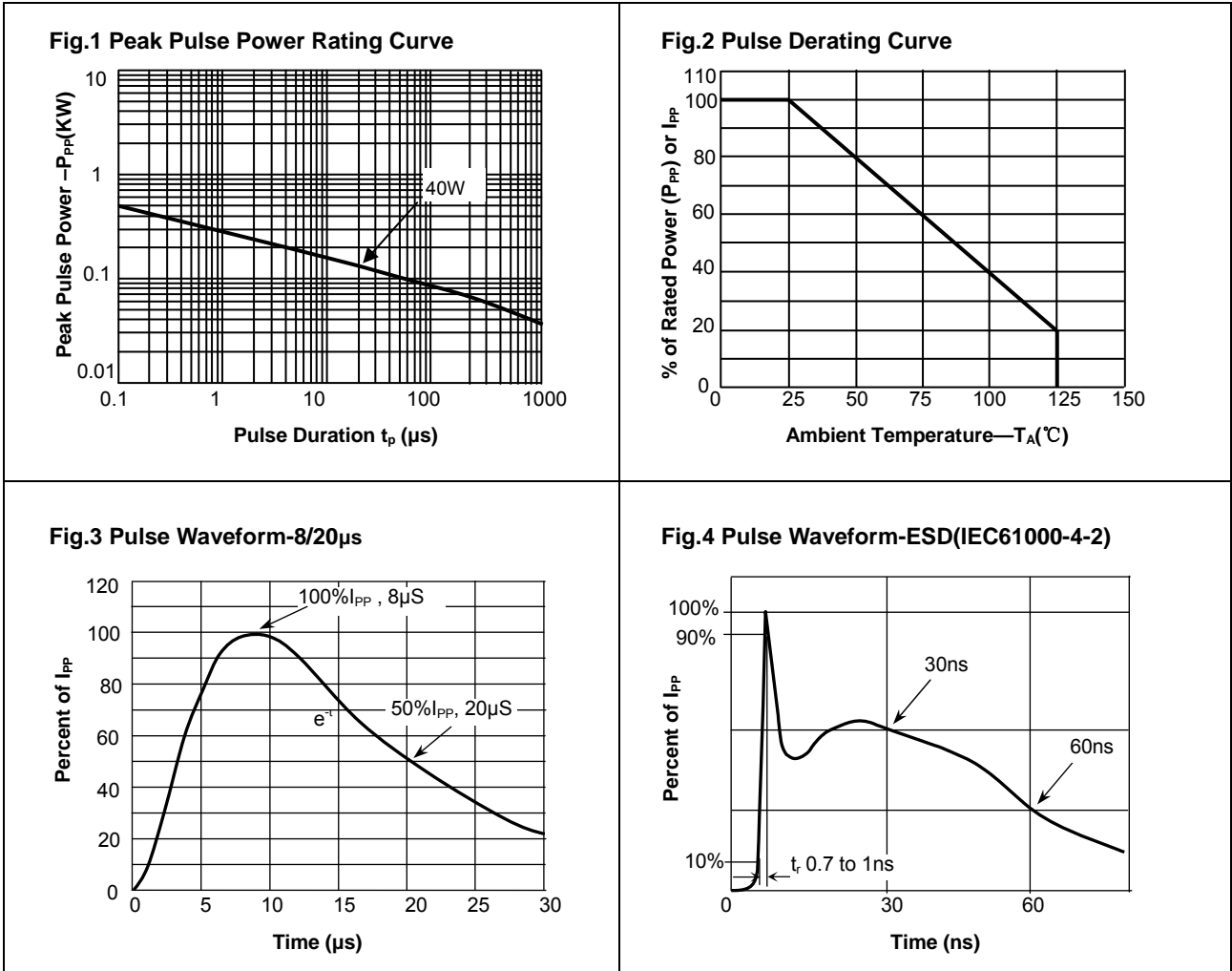
Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_p=8/20\mu s$ )	$P_{PP}$	40	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	15/15	kV
Peak Pulse Current ( $T_p = 8/20\mu s$ )	$I_{PP}$	3	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

### Electrical Characteristics

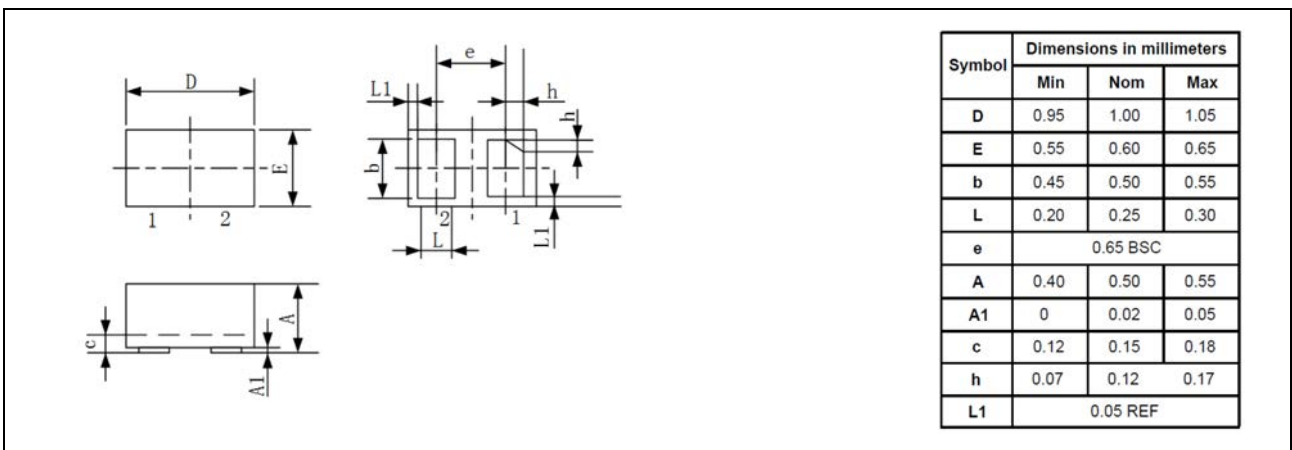
( $T_A = 25\text{ °C}$  unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				5.0	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	6.0	7.5		V
Reverse Leakage Current	$I_R$	$V_R=5V, T=25\text{ °C}$		0.1	0.5	$\mu A$
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP}=3A, T_p=8/20\mu s$			13	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$		0.5		pF

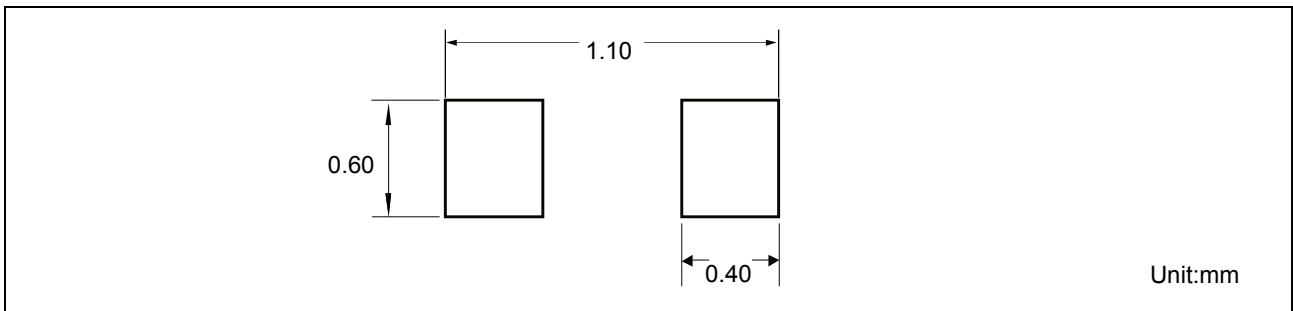
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



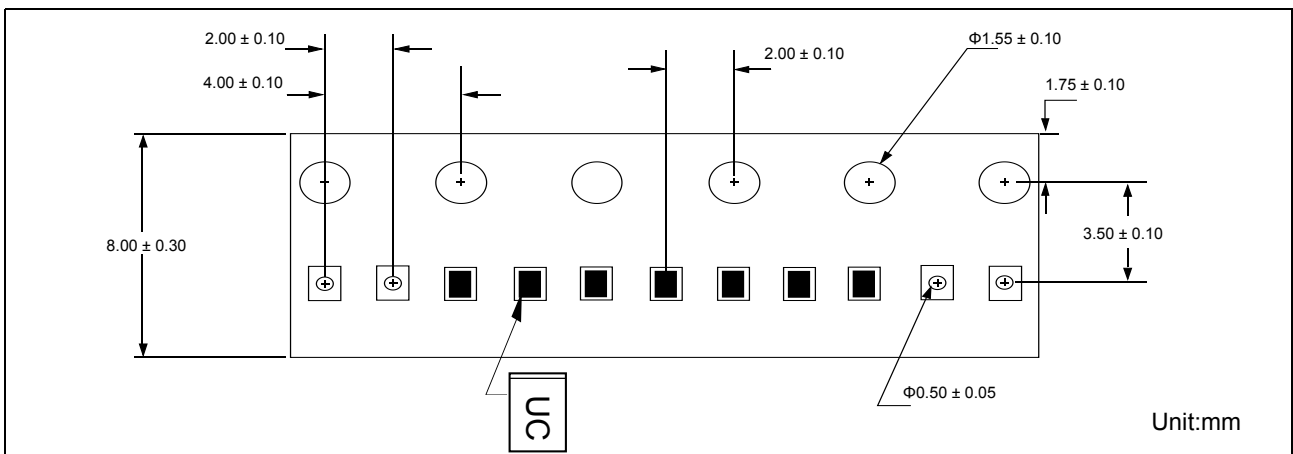
**Package Dimensions**



**Pad Dimensions**



**Tape and Reel Specification**



**Marking**



**Ordering information**

Order code	Package	Packaging option	Base quantity	Packaging specification
YEUD1020503AV	DFN1006-2	Tape and reel	10000pcs / reel	EIA STD RS-481