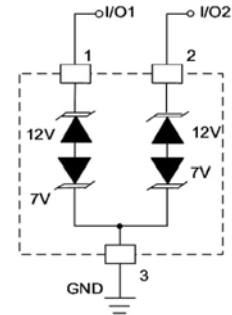
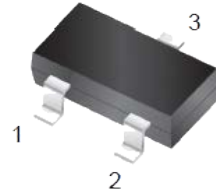


### Features

- 400Watts peak pulse power ( $T_P = 8/20\mu s$ )
- Tiny SOT-23 package
- Bidirectional configurations
- Protects two I/O port
- Low clamping voltage
- Low leakage current
- 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) 17A (8/20 $\mu s$ )



### Mechanical Data

- **Case:** SOT-23 (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

- Dateline
- Automatic Teller Machines
- Net works
- Power line

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

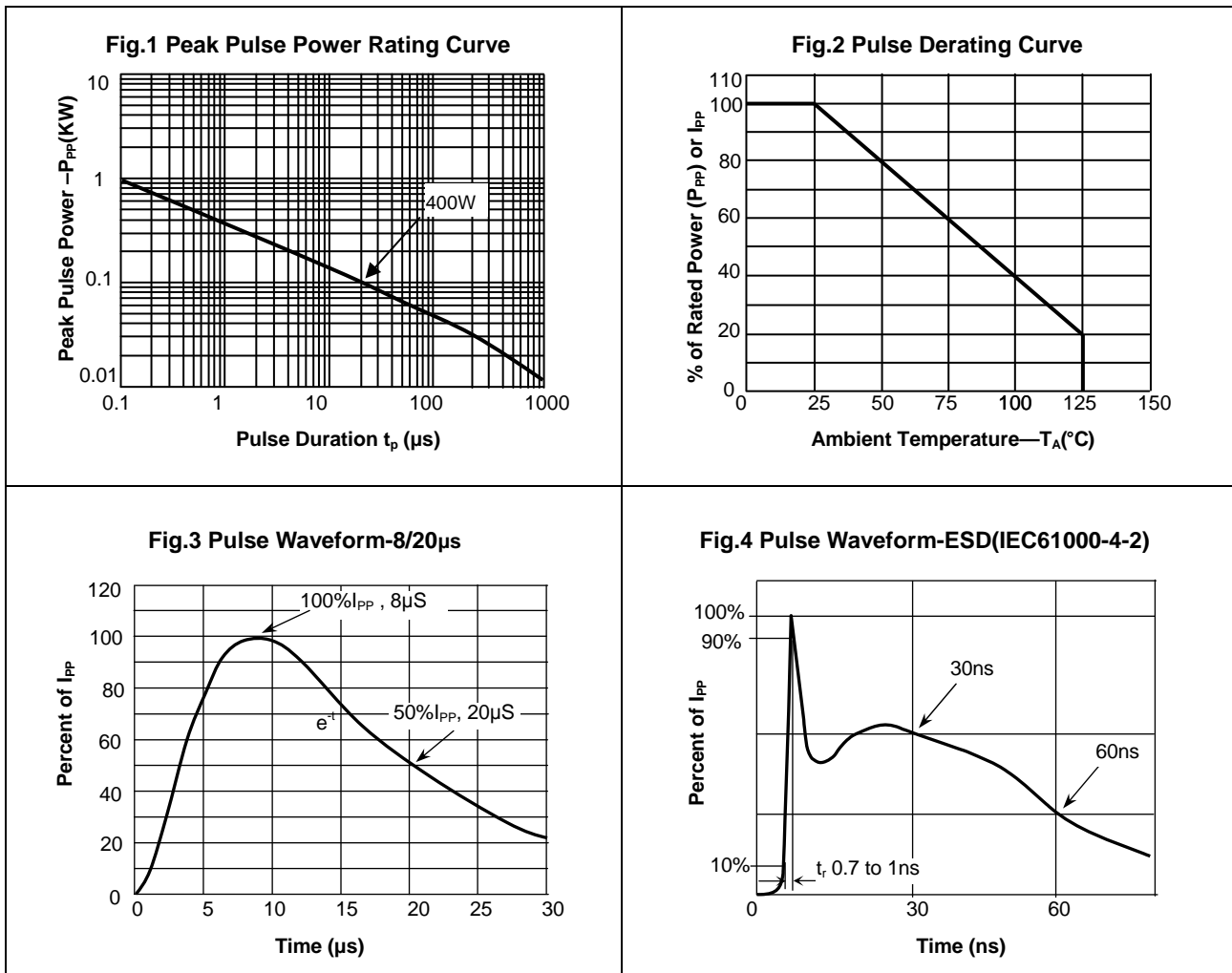
Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_P=8/20\mu s$ )	$P_{PP}$	400	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	30/30	kV
Peak Pulse Current ( $T_P = 8/20\mu s$ )	$I_{PP}$	17	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

### Electrical Characteristics

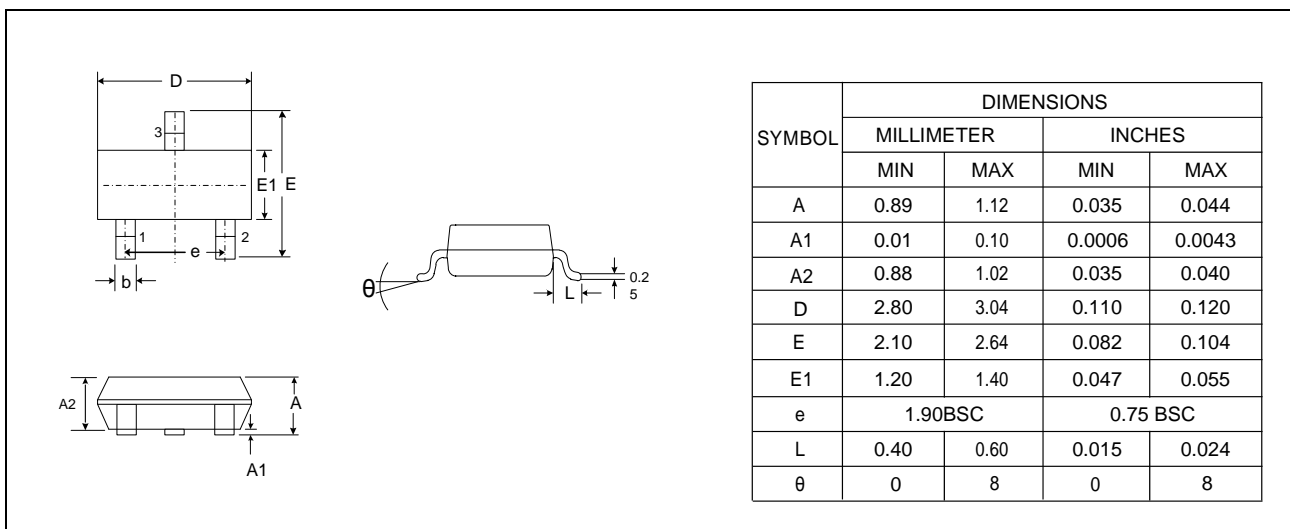
( $T_A = 25\text{ °C}$  unless otherwise specified)

Parameter	Symbol	Conditions	Pins 1 to 3 and 2 to 3 (12V TVS)			Pins 3 to 1 and 3 to 2 (7V TVS)			Unit
			Min	Typ	Max	Min	Typ	Max	
Reverse Stand-Off Voltage	$V_{RWM}$				12			7	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	13.3	14		7.5	9.5		V
Reverse Leakage Current	$I_R$	$V_R=V_{RWM}$			1			1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=17A, T_P=8/20\mu s$		24			10		V
Junction Capacitance	$C_j$	$V_R = 0V, f = 1MHz$		45			45		pF

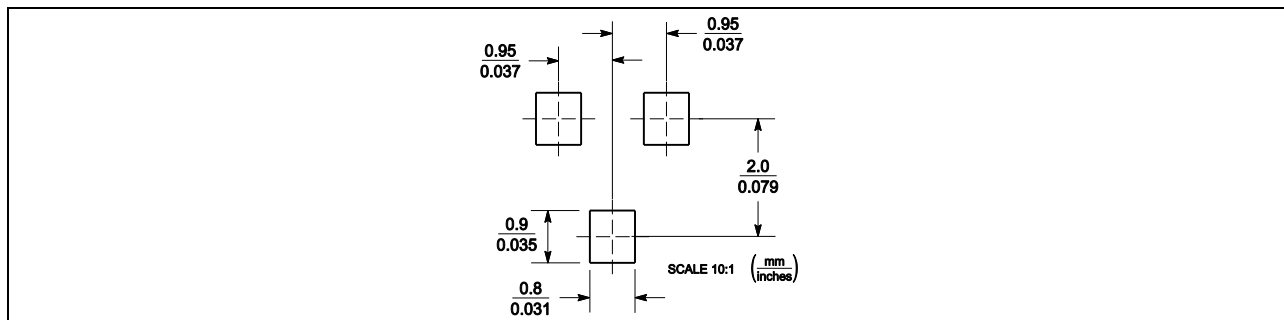
**Typical Characteristics** ( $T_{amb} = 25^\circ\text{C}$  unless otherwise specified)



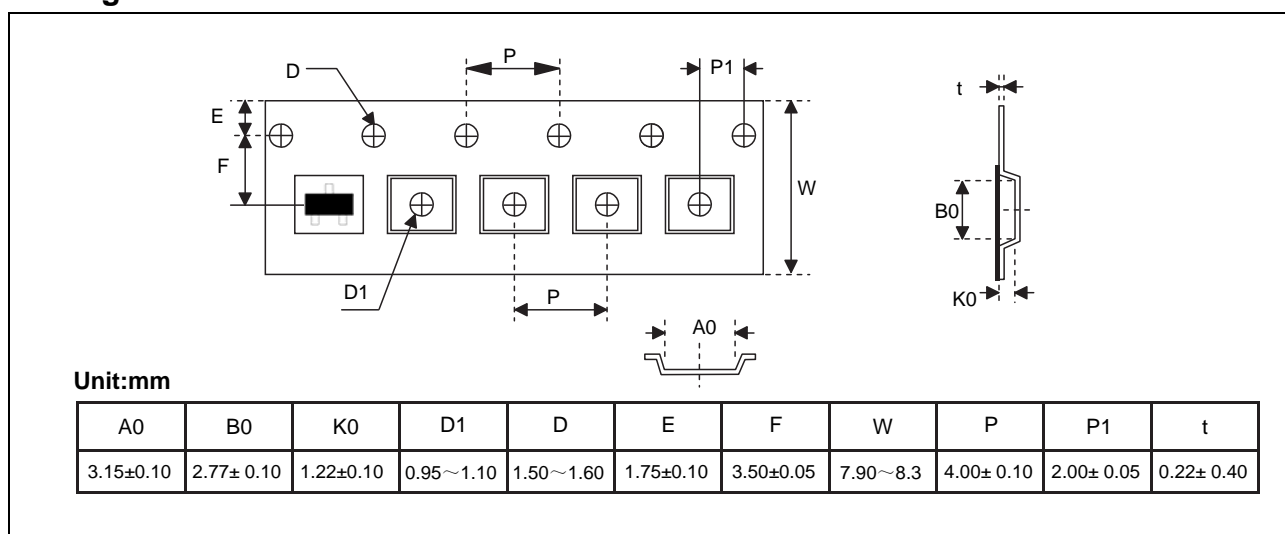
**Package Dimensions**



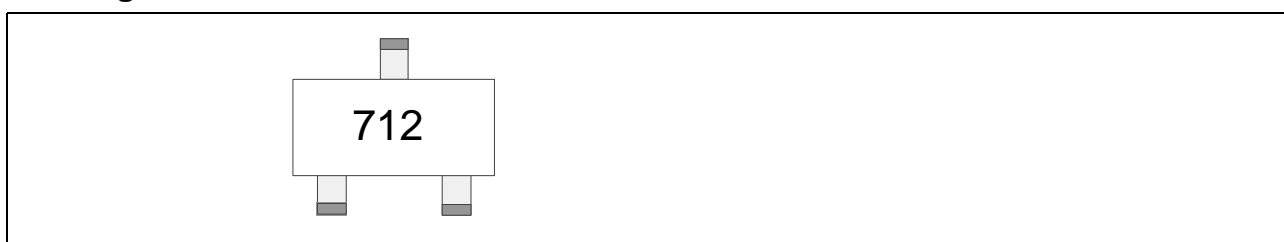
### Pad Dimensions



### Package Information



### Marking



### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDST23712G	SOT-23	Tape and reel	3000pcs / reel	EIA STD RS-481