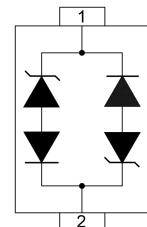


## Features

- 240Watts peak pulse power ( $T_p = 8/20\mu s$ )
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Low capacitance ( $C_j=1pF$  typ.)
- Protection one data/power line to:  
 IEC 61000-4-2 ±30kV contact ±30kV air  
 IEC 61000-4-4 (EFT) 40A (5/50ns)  
 IEC 61000-4-5 (Lightning) 4A (8/20μs)



## Mechanical Data

- **Case:** SOD-323 (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

- Ethernet - 10/100/1000 Base T
- Cellular Phones
- Handheld - Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

## Absolute Maximum Ratings

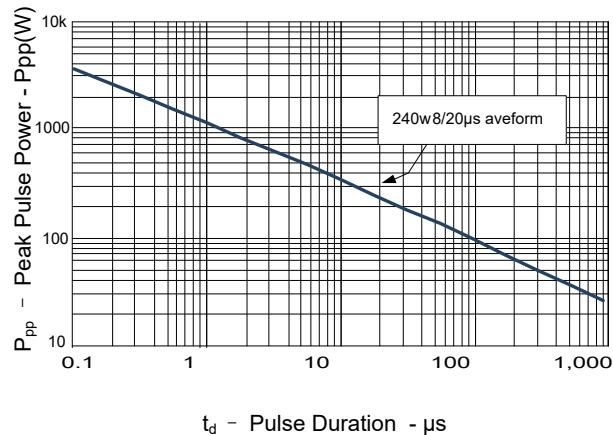
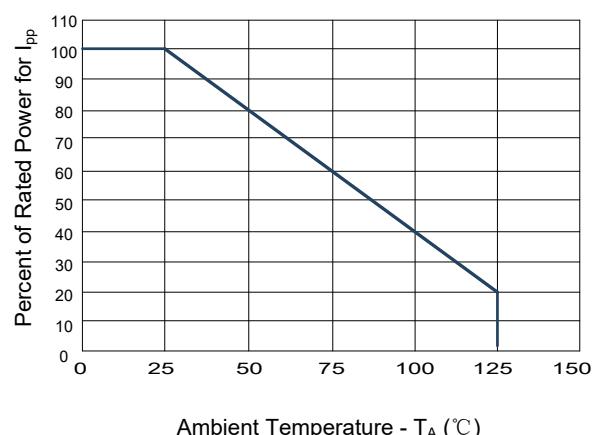
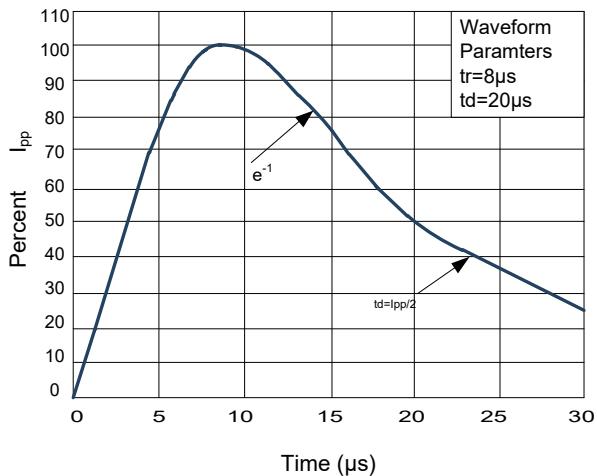
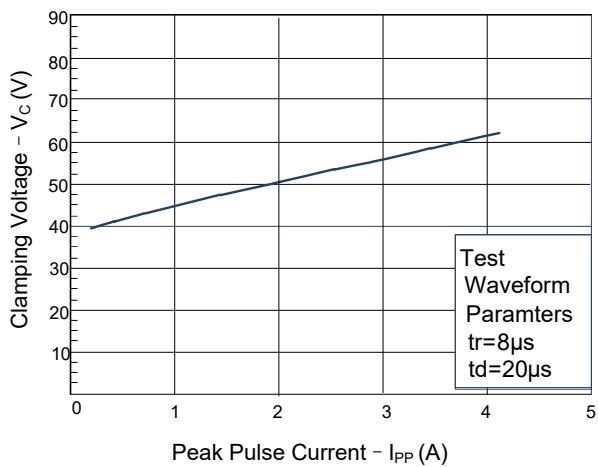
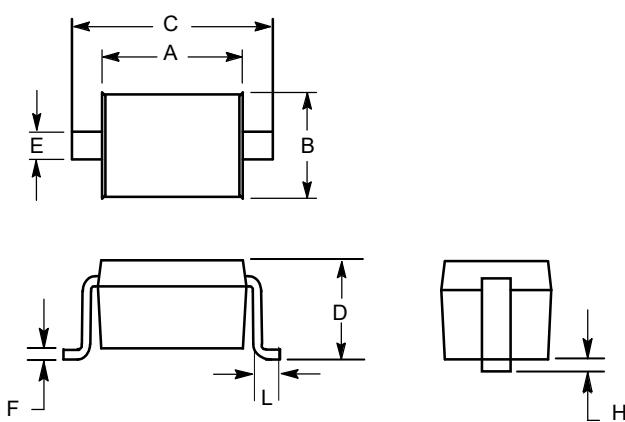
Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_p=8/20\mu s$ )	$P_{PP}$	240	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	30/30	kV
Peak Pulse Current ( $T_p = 8/20\mu s$ )	$I_{PP}$	4.0	A
Junction Temperature	$T_J$	-55 to +150	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

## Electrical Characteristics

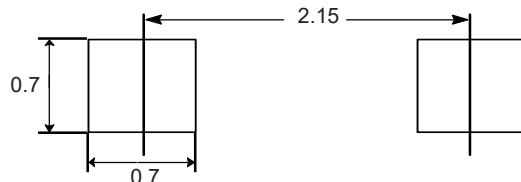
( $T_A = 25$  °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				36	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	40			V
Reverse Leakage Current	$I_R$	$V_R=24V$			1	uA
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP}=4A$		60		V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$		1		pF

**Typical Characteristics** ( $T_{amb} = 25^{\circ}\text{C}$  unless otherwise specified)
**Figure 1: Peak Pulse Power vs. Pulse Time****Figure 2: Power Derating Curve****Figure 3: Pulse Waveform****Figure 4: Clamping Voltage vs.I<sub>pp</sub>**
**Package Dimensions**


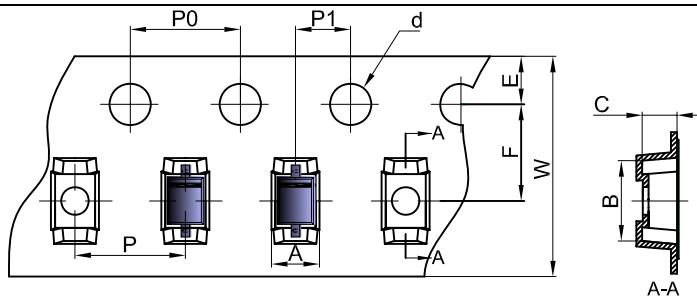
Dim	millimeters	
	min	max
A	1.60	1.90
B	1.15	1.45
C	2.39	2.70
D	0.80	1.00
E	0.25	0.40
F	0.10	0.20
H		0.10
L	0.20	

### PAD Dimension



All Dimensions in mm

### Package Information



Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.46	2.90	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
(Tolerance)	+/-0.05	+/-0.05	+/-0.05	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+0.3/-0.1

### Marking



### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YELSD323604AG	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481