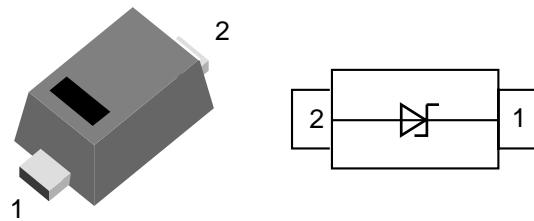


## Features

- 200Watts peak pulse power ( $T_p = 8/20\mu s$ )
- SOD-523FL package
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance ( $C_j=45pF$  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) 8A (8/20 $\mu s$ )



## Mechanical Data

- **Case:** SOD-523FL (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

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

## Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

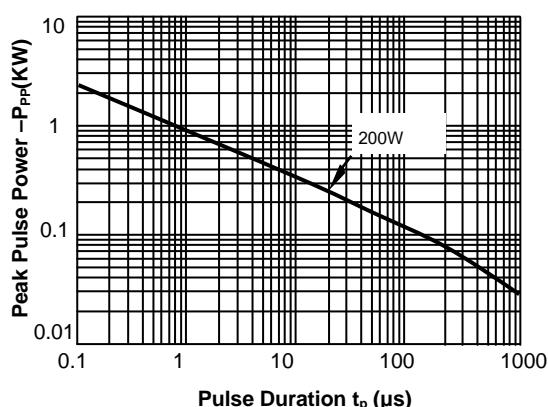
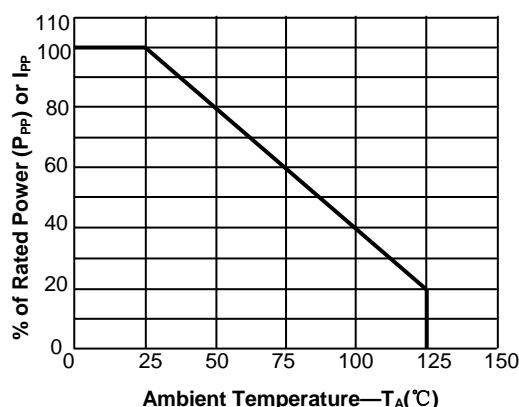
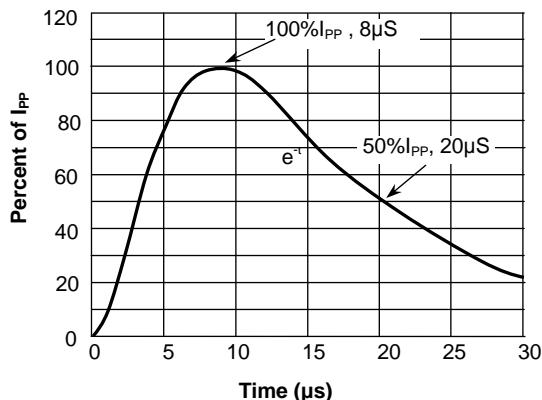
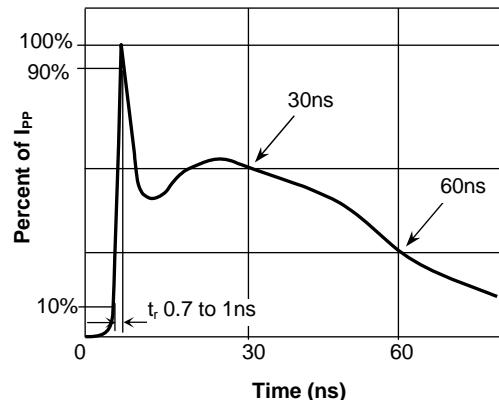
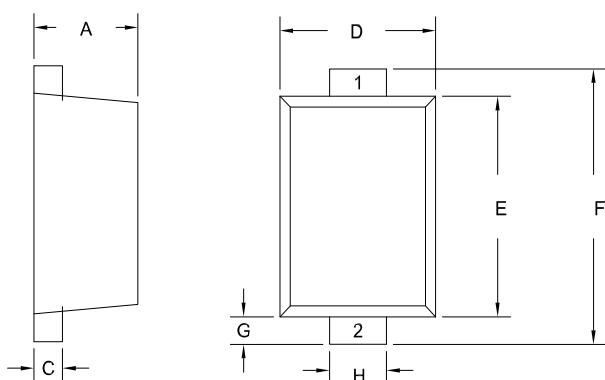
Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_p=8/20\mu s$ )	$P_{PP}$	200	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	30/30	kV
Peak Pulse Current ( $T_p = 8/20\mu s$ )	$I_{PP}$	8	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

## Electrical Characteristics

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

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				12	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	13.3	15.0		V
Reverse Leakage Current	$I_R$	$V_R=12V$			1	µA
Clamping Voltage	$V_C$	$I_{PP}=5A, T_p=8/20\mu s$			20	V
Clamping Voltage	$V_C$	$I_{PP}=8A, T_p=8/20\mu s$		25		V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$		45		pF

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

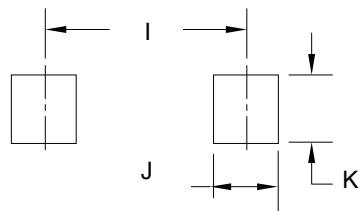
**Fig.1 Peak Pulse Power Rating Curve**

**Fig.2 Pulse Derating Curve**

**Fig.3 Pulse Waveform-8/20μs**

**Fig.4 Pulse Waveform-ESD(IEC61000-4-2)**

**Package Dimensions**




YEDSD521208AV

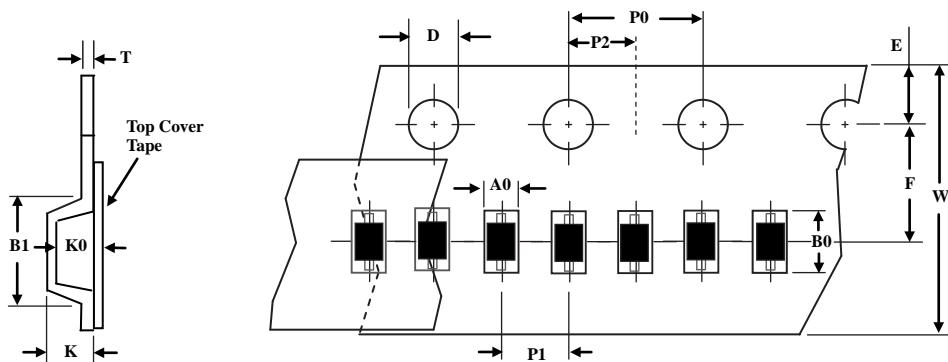
ESD Protection Diode

### Pad Dimensions



Dim	millimeters
I	1.47
J	0.53
K	0.5

### Package Dimensions

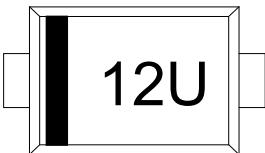


TapeSize(W)	B1 max	D	E	F	K max	P0	P1	P2	T max	W max
8	4.55	1.55±0.05	1.75±0.1	3.5±0.05	2.4	4.0±0.1	2.0±0.05	2.0±0.05	0.6	8.3

Note: 1. unit : mm

2. A0, B0, and K0 are determined by component size. The clearance between the components and the cavity must be within 0.05mm min to 0.50 mm max. The component cannot rotate more than 10° within the determined cavity.

### Marking



### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDSD521208AV	SOD-523FL	Tape and reel	5000pcs / reel	EIA STD RS-481