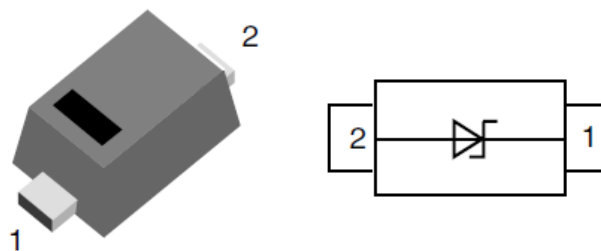


Features

- ◆280Watts peak pulse power ($t_p = 8/20\mu s$)
- ◆SOD-523 package
- ◆Unidirectional configurations
- ◆Low clamping voltage
- ◆Low leakage current
- ◆Medium capacitance ($C_j = 20pF$ typ.)
- ◆Protection one data/power line to:
IEC 61000-4-2 $\pm 8kV$ contact $\pm 15kV$ air
IEC 61000-4-4 (EFT) 40A (5/50ns)
IEC 61000-4-5 (Lightning) 4A (8/20 μs)



Applications

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

Mechanical data

- ◆Case: SOD-523 (plastic package).
- Lead free; RoHS compliant
- ◆Molding Compound Flammability Rating:
UL 94 V-0
- ◆Terminals: High temperature soldering guaranteed:
260 °C/10 sec. at terminals

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}	280	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	8/15	kV
Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	4.0	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				36	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	40			V
Reverse Leakage Current	I_R	$V_R=36\text{V}$, $T=25^\circ\text{C}$			0.5	μA
Clamping Voltage	V_C	$I_{PP}=5\text{A}$, $T_P=8/20\mu\text{S}$			70	V
Junction Capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$		25		pF

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

Fig.1 Peak Pulse Power Rating Curve

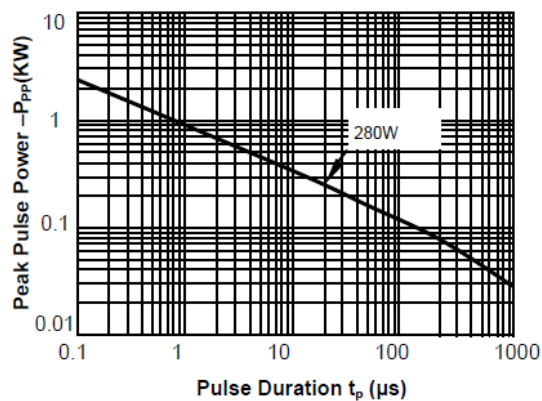


Fig.2 Pulse Derating Curve

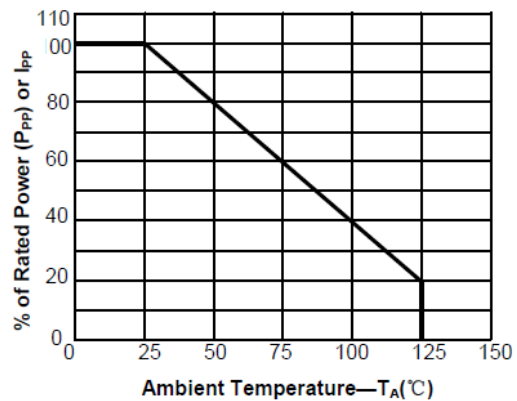


Fig.3 Pulse Waveform-8/20μs

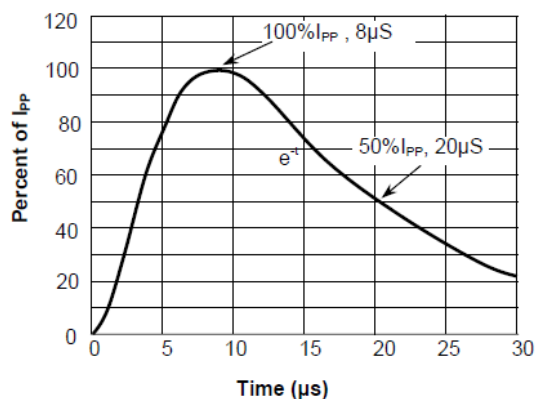
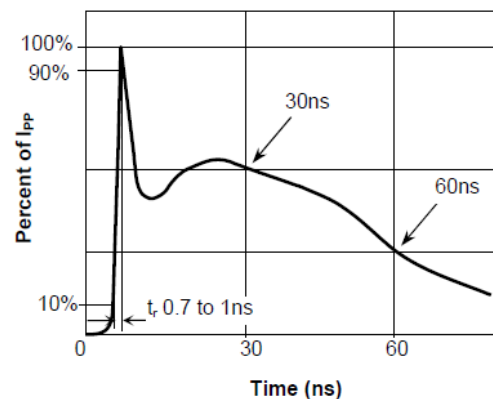
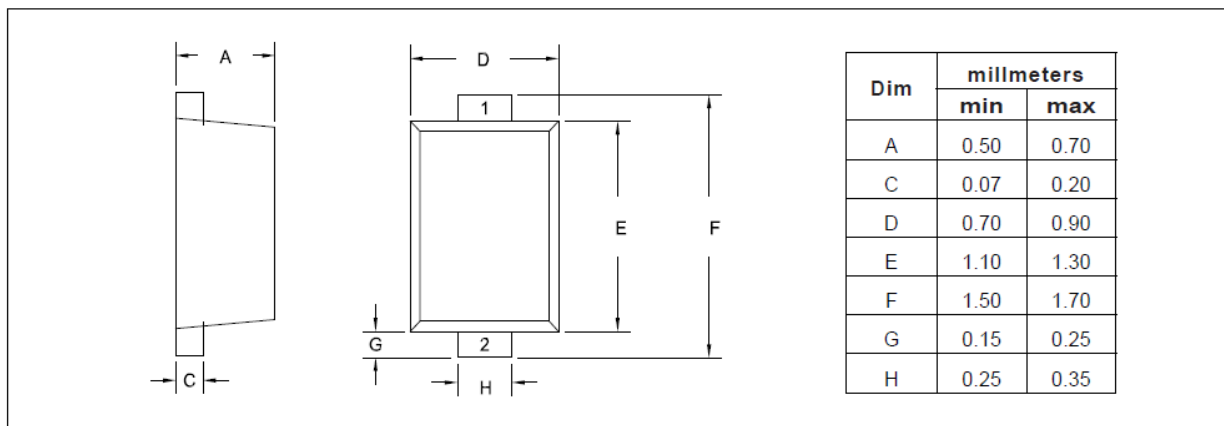


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Package Dimensions



Part number system

	CES	D523	NC	36V	US
Product series (ESD)					
Package (SOD-523)					
Capacitance type (Normal capacitance)					
Working voltage (36V)					
Directional (Unidirectional)					

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD523NC36VUS	SOD-523	Tape and reel	5000pcs / reel	EIA STD RS-481