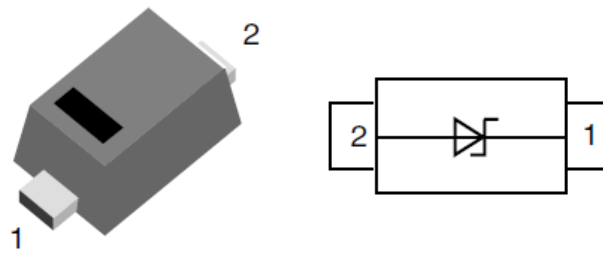


Features

- ◆ 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

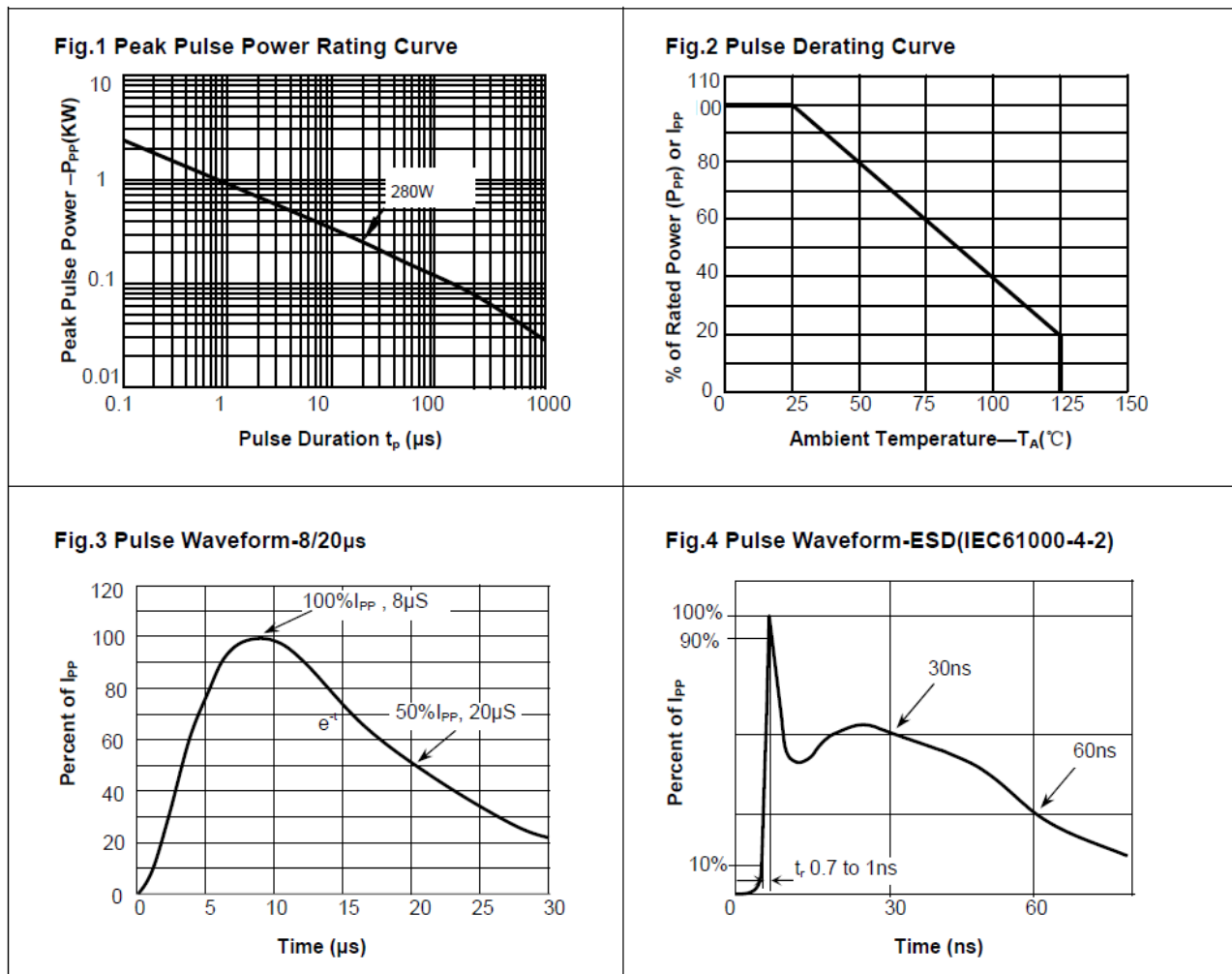
Absolute Maximum Ratings (Ratings at 25 °C, ambient temperature unless otherwise specified)

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

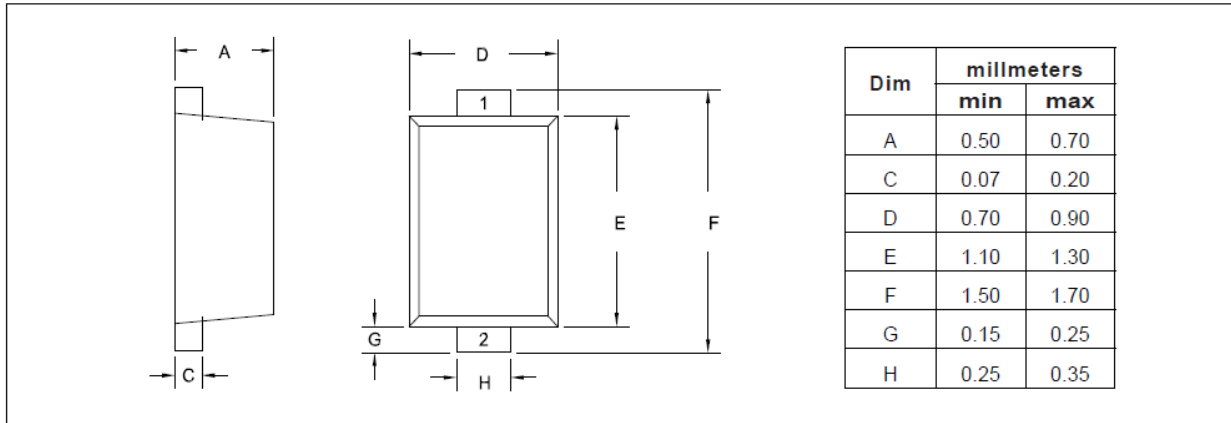
Electrical Characteristics (T_A = 25 °C unless otherwise specified)

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 =36V , T=25°C			0.5	μA
Clamping Voltage	V _C	I _{PP} =5A , T _p =8/20μS			70	V
Junction Capacitance	C _J	V _R =0V,f=1MHz		25		pF

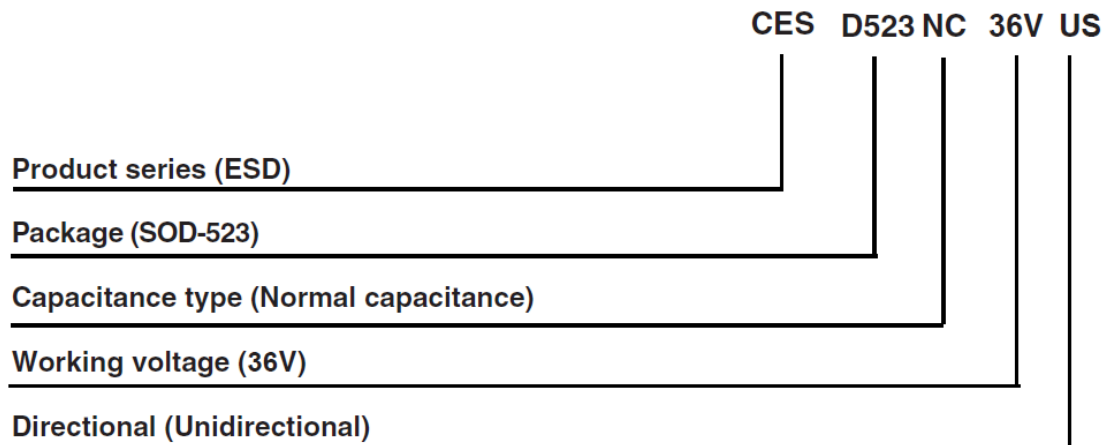
Typical Characteristics (T_{amb} = 25°C unless otherwise specified)



Package Dimensions



Part number system



Ordering information

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