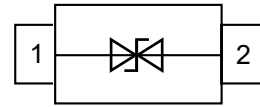
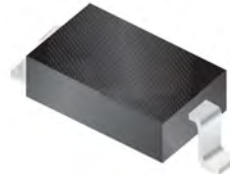




Features

- 100Watts peak pulse power ($T_P= 8/20\mu s$)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance ($C_j=0.6pF$ typ.)
- Protection one data/power line to:
 - ISO 10605 $\pm 8kV$ contact $\pm 15kV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 7A (8/20 μs)
- AEC-Q101 Qualified



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

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Portable Instrumentation
- Notebooks, Desktops, and Servers
- Personal Digital Assistant (PDA)

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

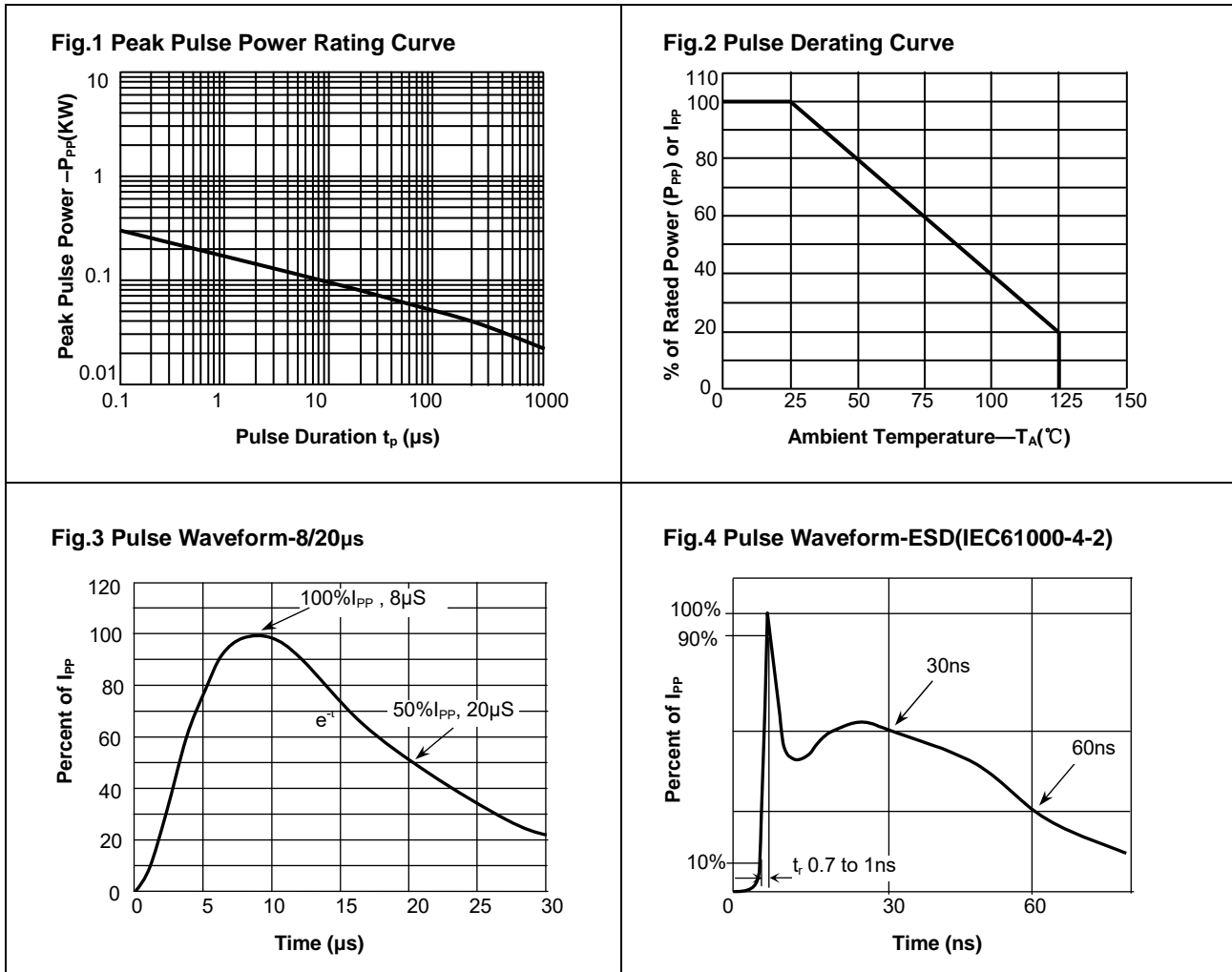
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu s$)	P_{PP}	100	W
ESD contact/air discharge (ISO 10605)	V_{ESD}	8/15	kV
Peak Pulse Current ($T_P = 8/20\mu s$)	I_{PP}	7	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

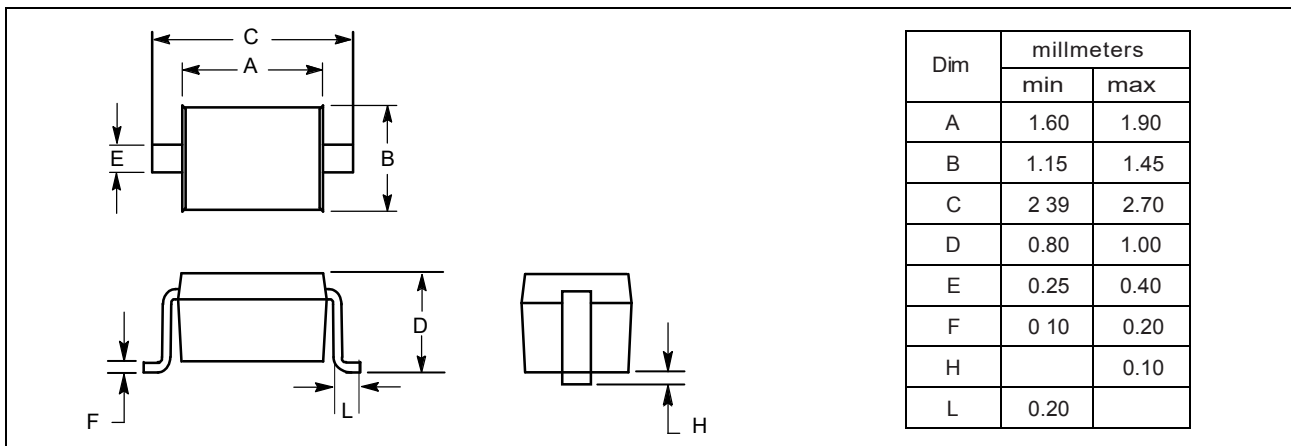
($T_A = 25\text{ °C}$ unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	6.0	7.5		V
Reverse Leakage Current	I_R	$V_R=5.0V$			0.5	μA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP}=7A$		18		V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		0.6		pF

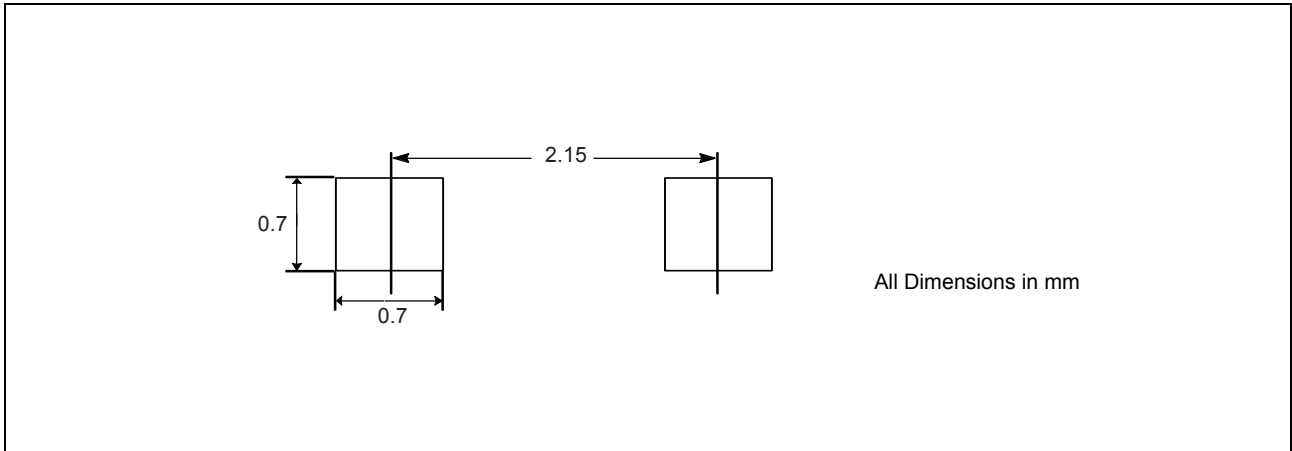
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



PAD Dimension



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
YEUSD320507AH	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481