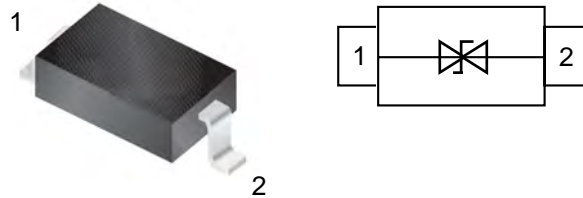


Features

- 2700Watts peak pulse power ($t_p = 8/20\mu s$)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- High capacitance ($C_j=390pF$ 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) 160A (8/20 μs)



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

- Computers and peripherals
- Communication systems
- Notebook
- Power Line
- Power management
- USB Vbus

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}	2700	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}	160	A
Junction Temperature	T_J	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +125	°C

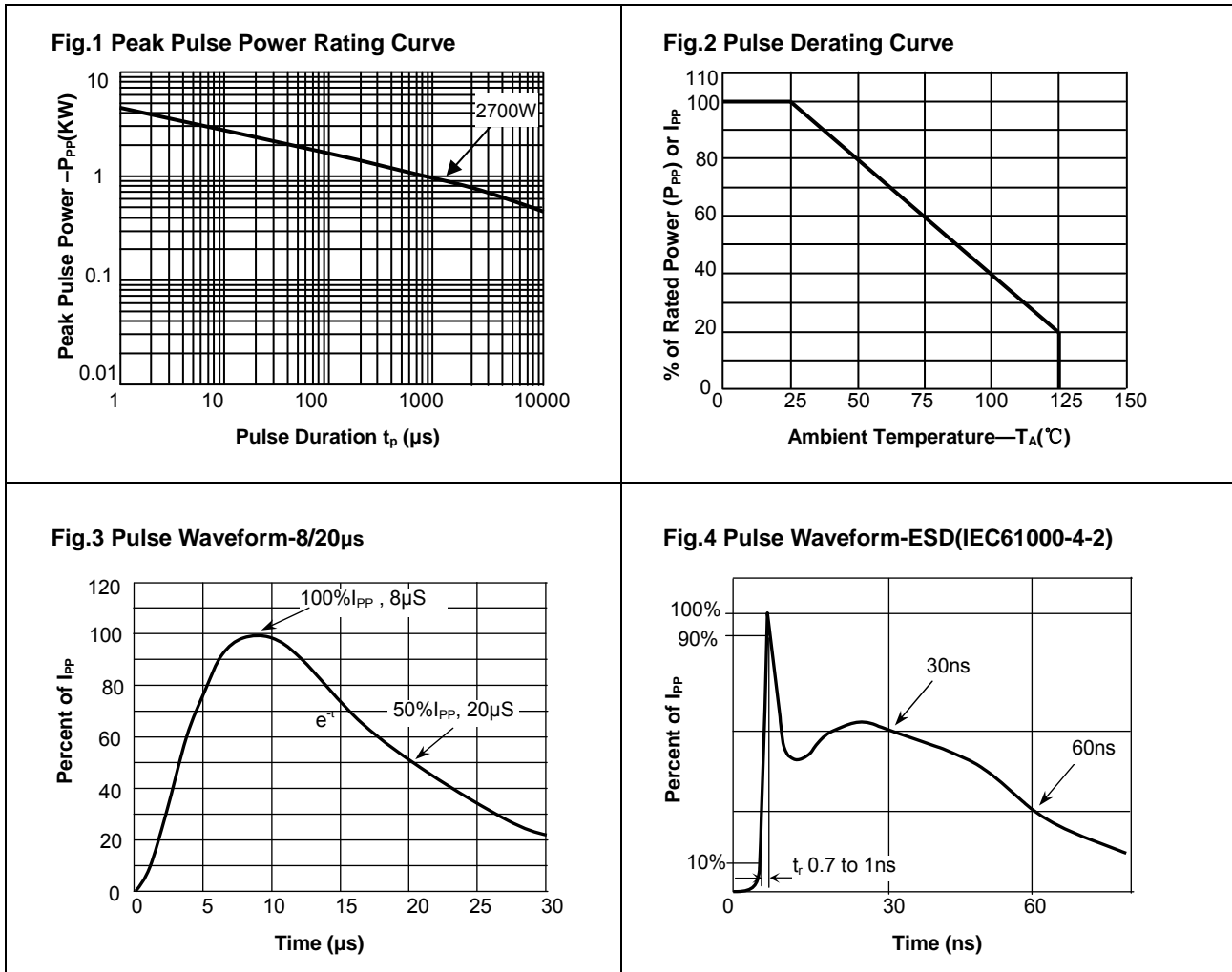
Electrical Characteristics

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

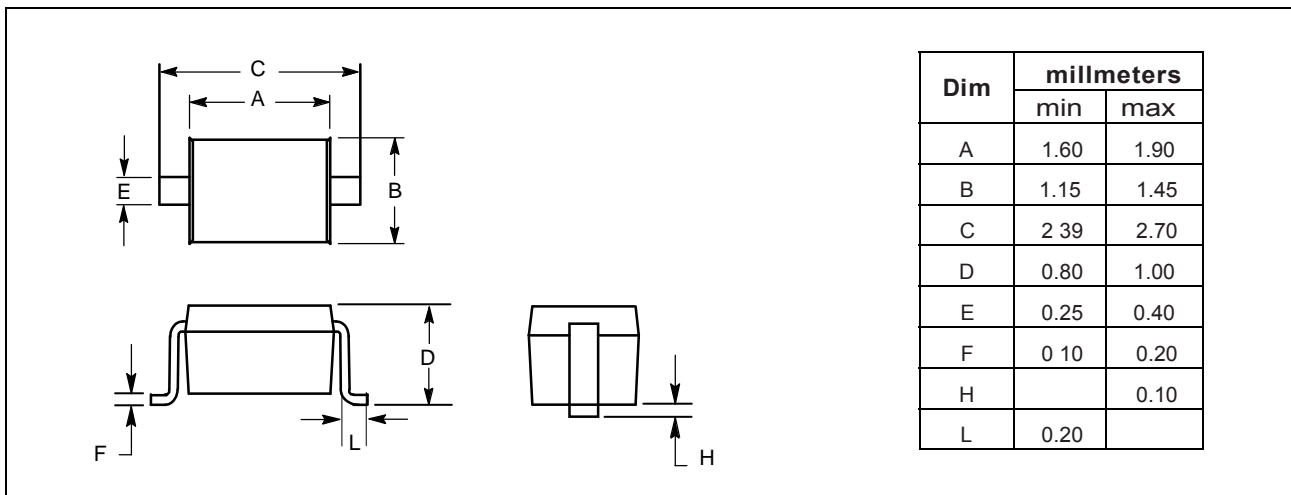
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				4.5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	4.6			V
Reverse Leakage Current	I_R	$V_R=4.5V$			1	μA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP}=160A$		17		V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		390		pF



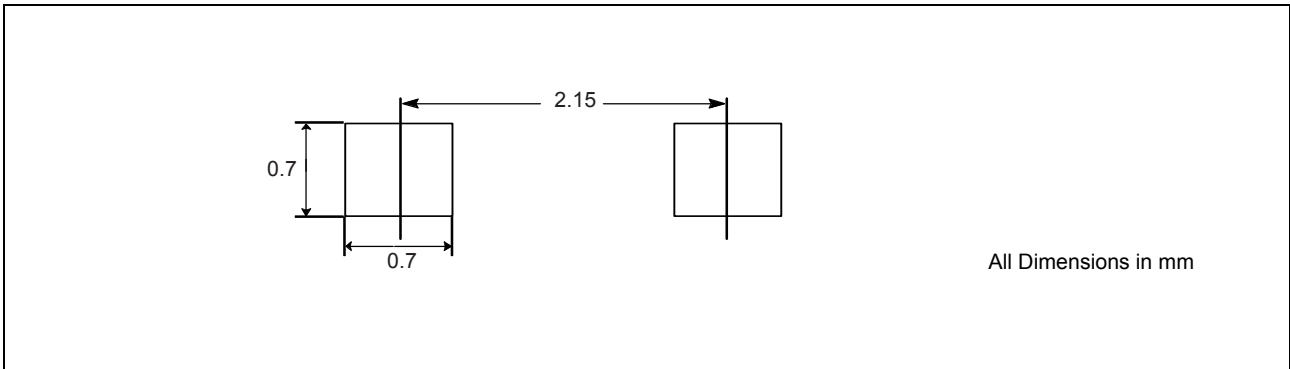
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



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
YEDSD324R160G	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481