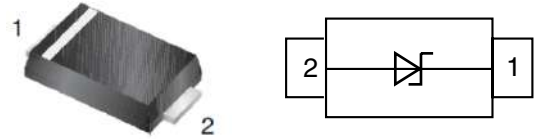


Features

- 5900Watts peak pulse power (8/20 μ s)
- SOD-123FL package
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (C_j=590pF typ.)
- Protection one data/power line to:
 - IEC 61000-4-2 \pm 30kV contact \pm 30kV air
 - IEC 61000-4-4 (EFT) 80A (5/50ns)
 - IEC 61000-4-5 (Lightning) 170A (8/20 μ s)



Mechanical Data

- **Case:** SOD-123FL (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
- Cellular handsets and accessories
- Portable electronics

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μ S)	P _{PP}	5900	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (8/20 μ S)	I _{PP}	170	A
Junction Temperature	T _J	-55 to +150	°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}			24		V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	26.5			V
Reverse Leakage Current	I _R	V _R =24V			1	μ A
Clamping Voltage	V _C	I _{PP} =170A			35	V
Junction Capacitance	C _J	V _R =0V, f=1MHz		590		pF

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

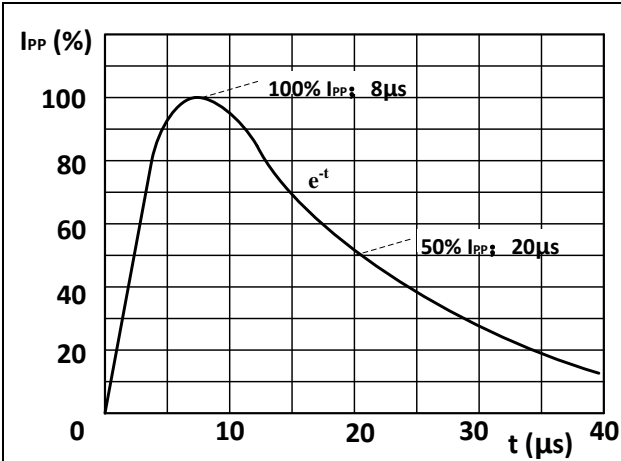


Fig. 1. 8/20 μs pulse waveform according to IEC 61000-4-5 and IEC 61643-321

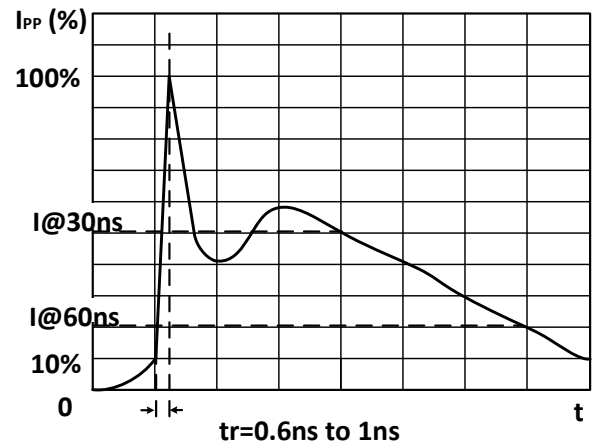


Fig. 2. ESD pulse waveform according to IEC 61000-4-2

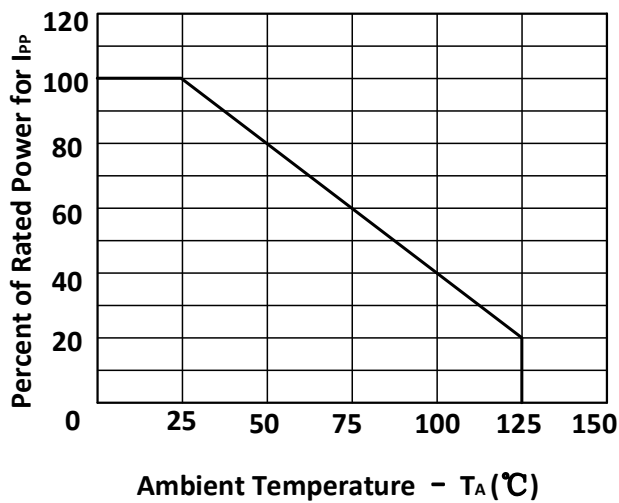


Fig. 3. Power Derating Curve

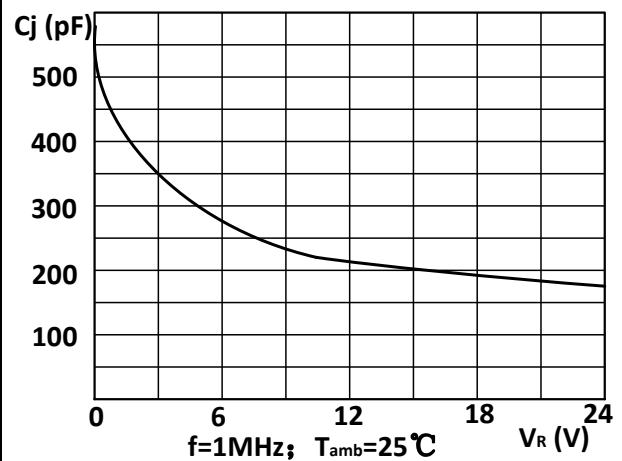
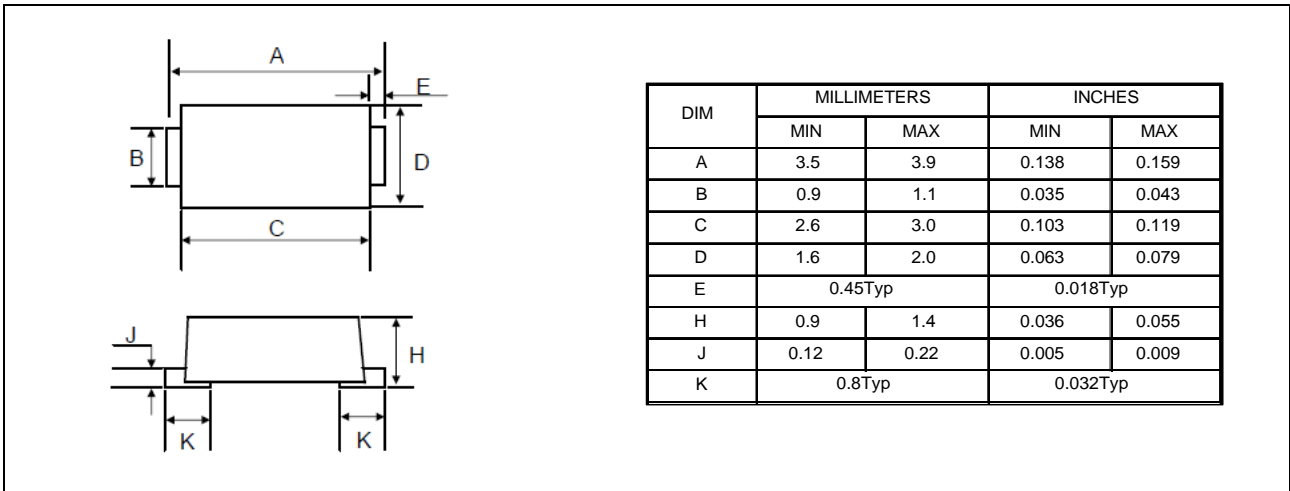
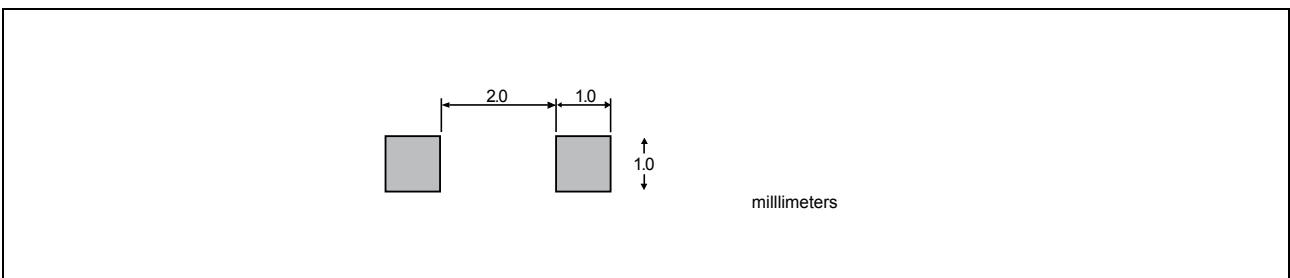


Fig. 4. Junction Capacitance vs V_R

Package Dimensions



Pad Dimensions



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
YEDSF1224170V	SOD-123FL	Tape and reel	3000pcs / reel	EIA STD RS-481