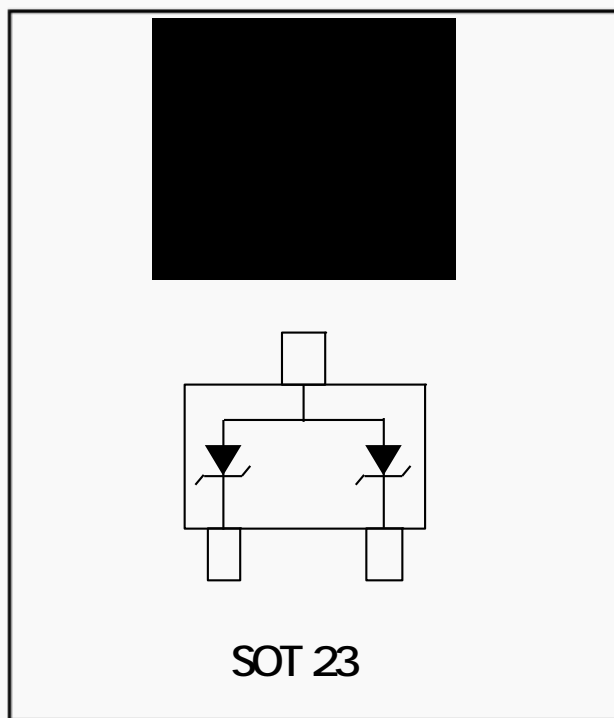


## 2- Line, Uni-directional, ESD protection diode



### Features

- Transient protection for each line according to
  - IEC61000-4-2(ESD):  $\pm 30\text{kV}$  contact,  $\pm 30\text{kV}$  air
  - IEC61000-4-5:  $10\text{A}$  ( $t_p=8/20\mu\text{s}$ )
- Low leakage current
- Ultra low clamping voltage
- RoHS Compliant
- Part no. with suffix "Q" means AEC-Q101 qualified

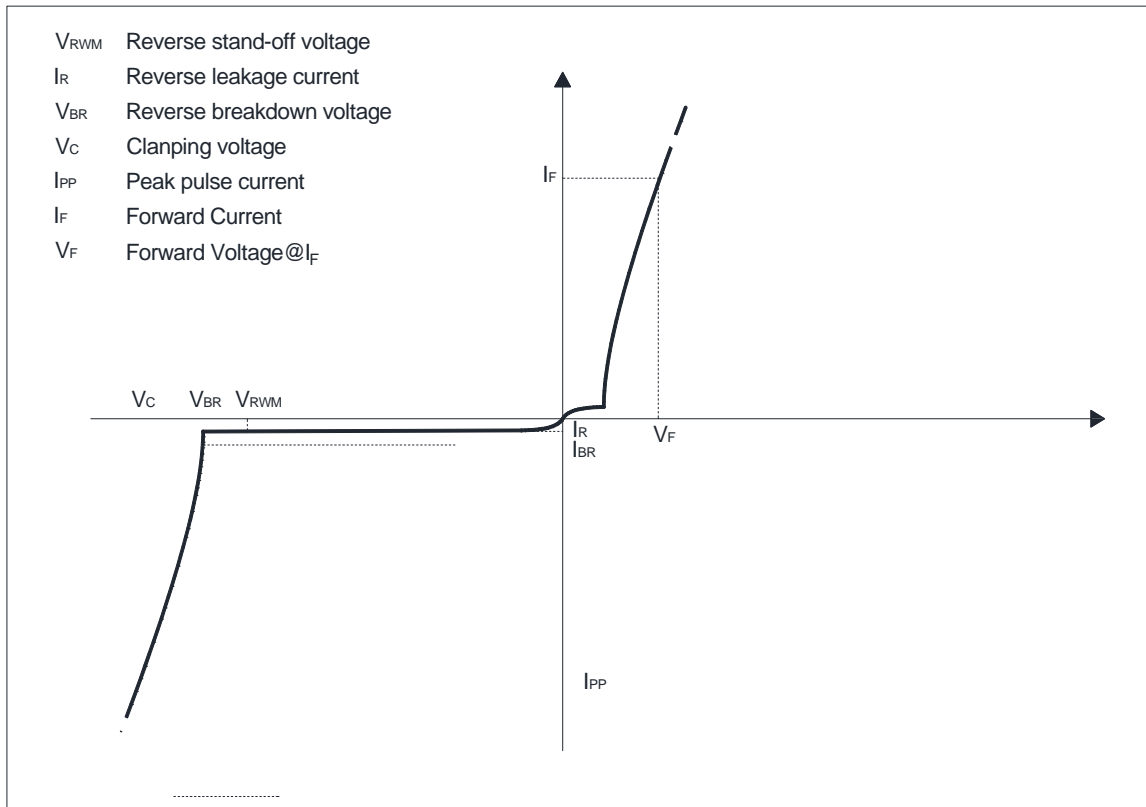
### Applications

- Switches / Buttons
- Test Equipment/Instrumentation
- Point of Sale Terminals
- Medical Equipment
- Notebooks / Desktops / Servers
- Computer Peripherals
- CAN Bus protection
- Automotive applications

### Mechanical Data

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020

### Definitions of electrical characteristics





## ESD1202EQ

### Maximum Ratings

PARAMETER			UNIT
Peak pulse power ( $t_p = 8/20\mu s$ )	$P_{pk}$	280	W
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	
Junction temperature	$T_J$	-55~150	
Storage temperature	$T_{STG}$	-55~150	

Notes:

CAUTION: Stresses above those listed in "Absolut ä tAbsol



## Characteristics (Typical)

Fig.1: Non-Repetitive Peak Pulse Power vs. Pulse Time

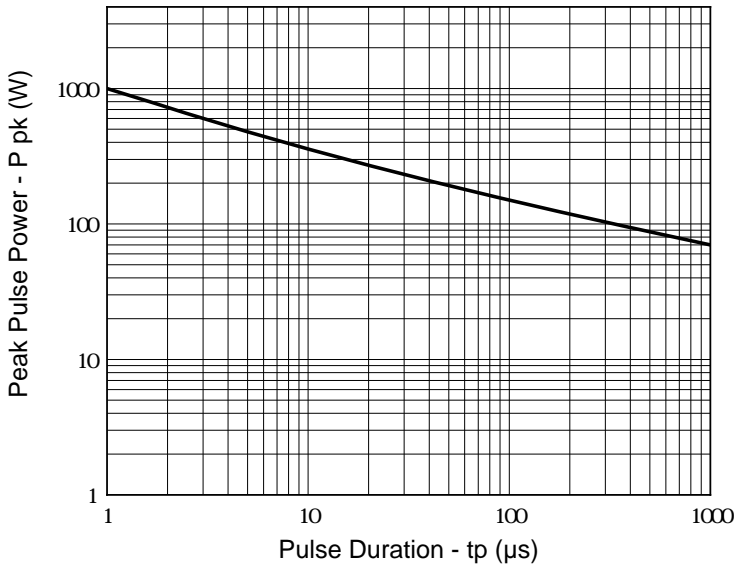


Fig.2: Capacitance vs. Bias

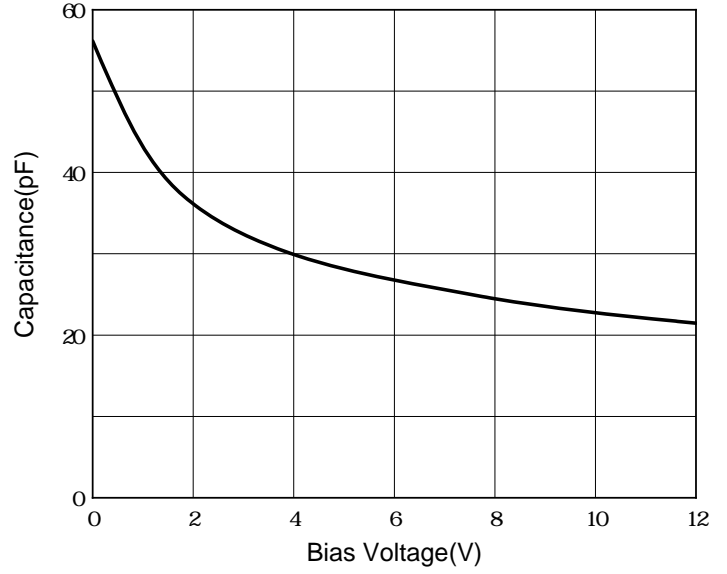


Fig.3: Power Derating Curve

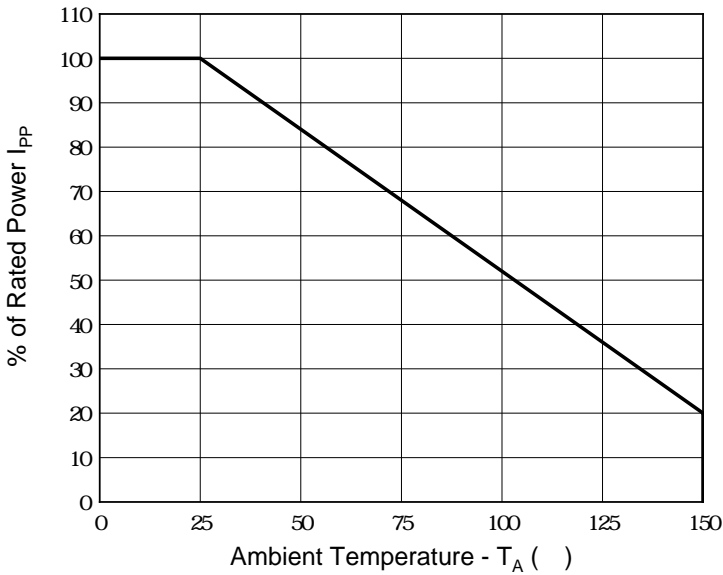
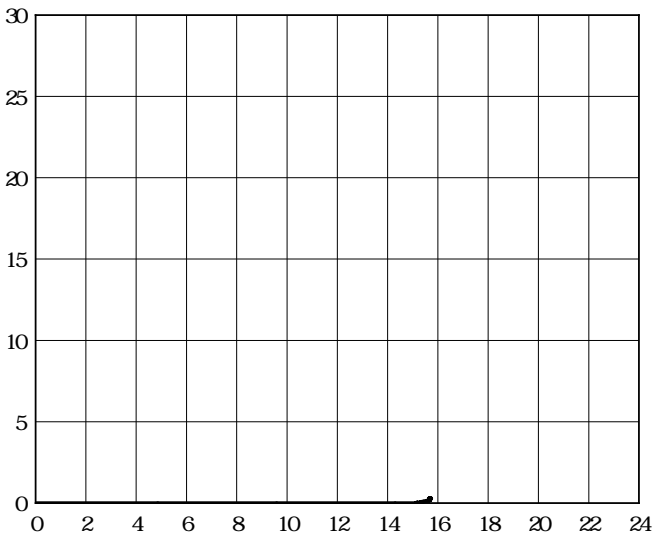
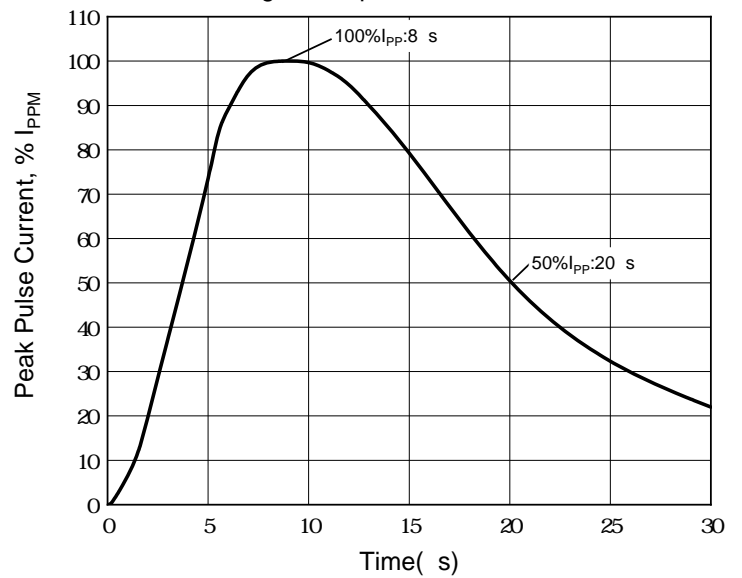


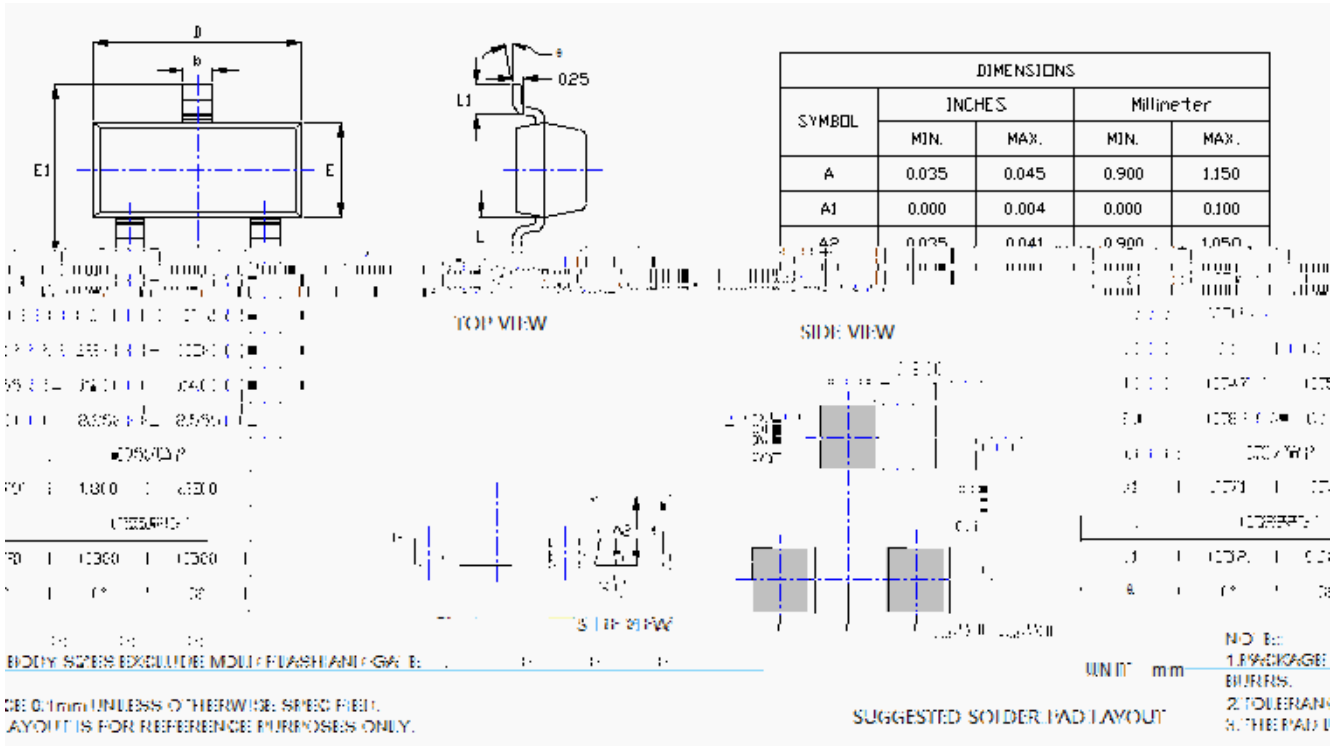
Fig.4: 8/20μs Pulse Waveform



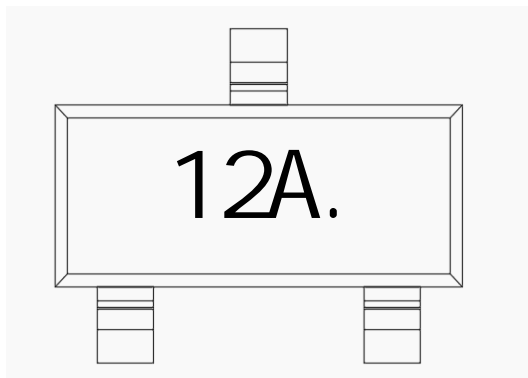


# ESD1202EQ

## Outline Dimensions



## Marking Information



**Note:**

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black

