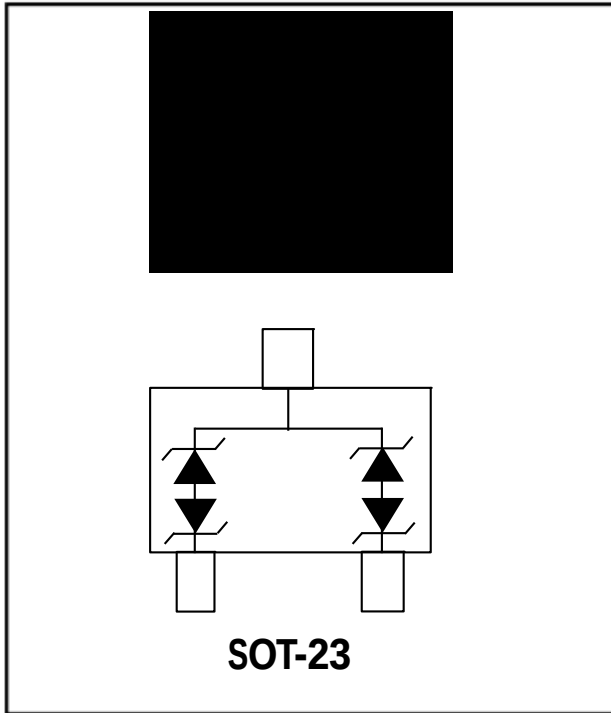


2- Line, Bi-directional, ESD protection diode



Features

- Transient protection for each line according to IEC61000-4-2(ESD): $\pm 30\text{kV}$ contact, $\pm 30\text{kV}$ air IEC61000-4-5:14A($t_p=8/20\mu\text{s}$)
- Low leakage current
- Ultra low clamping voltage
- RoHS Compliant
- Part no. with suffix "Q" means AEC-Q101 qualified

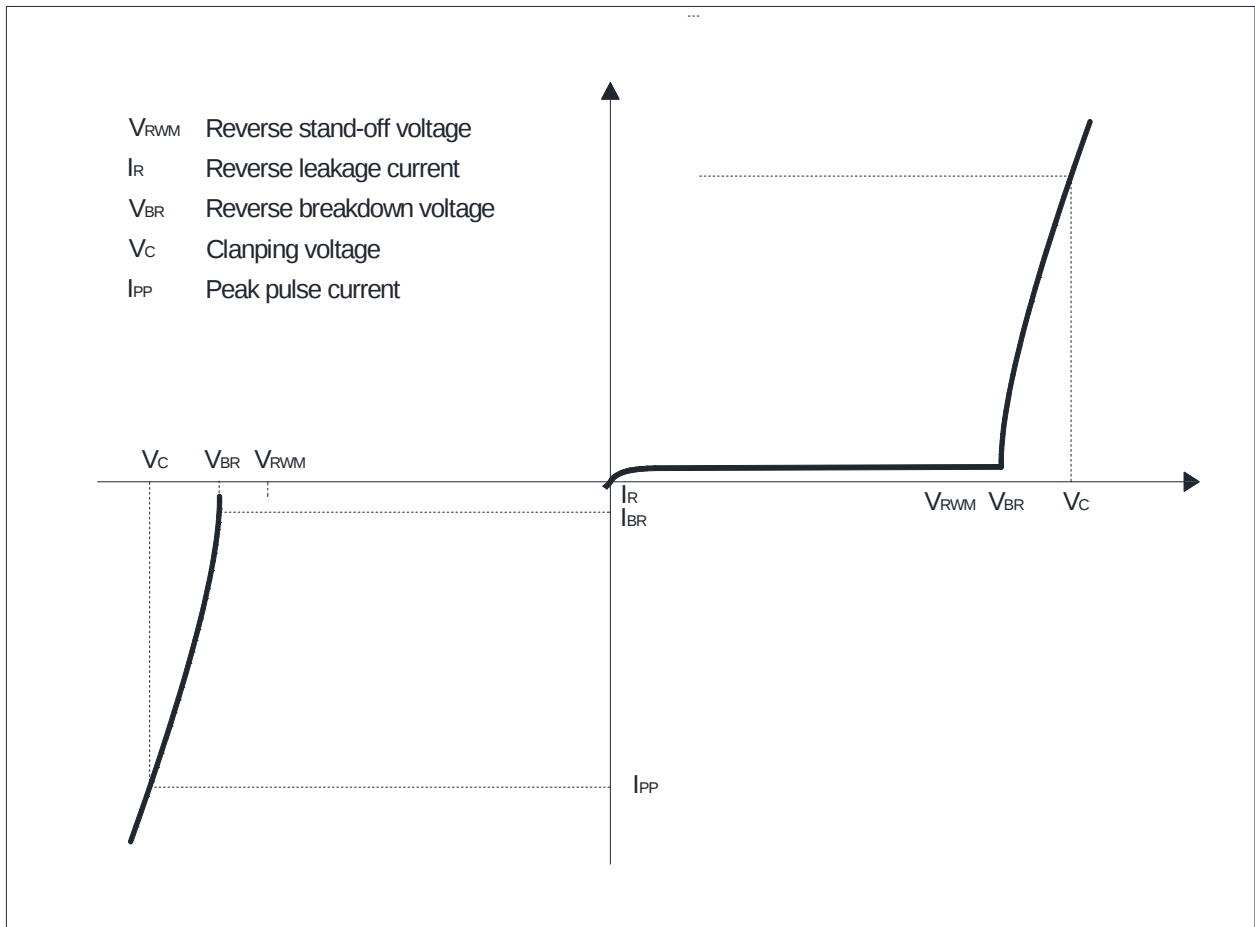
Applications

- Vehicle domain controller ,VCU electrostatic protection
- Electrostatic protection for automotive electronic multimedia interface
- 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





ESD0302EBSQ

■Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
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Peak pulse power ($t_p = 8/20\mu s$)

P_{pk}



■ Characteristics (Typical)

Fig.1: 8/20 μ s Pulse Waveform

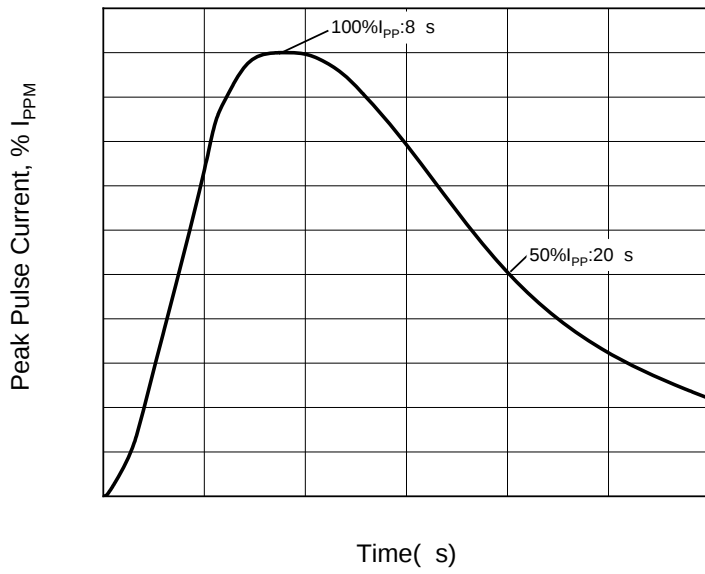
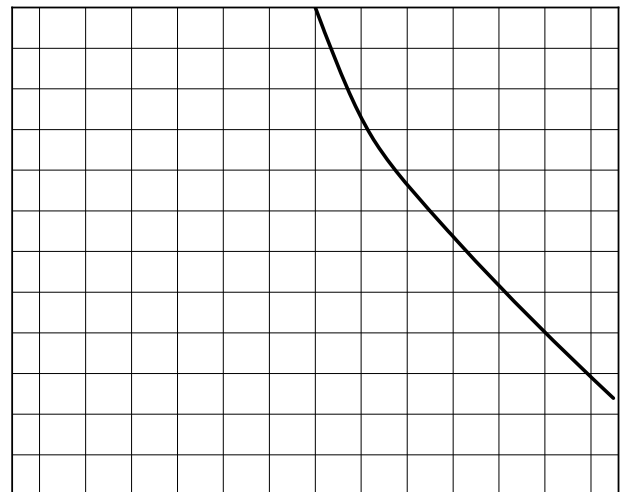
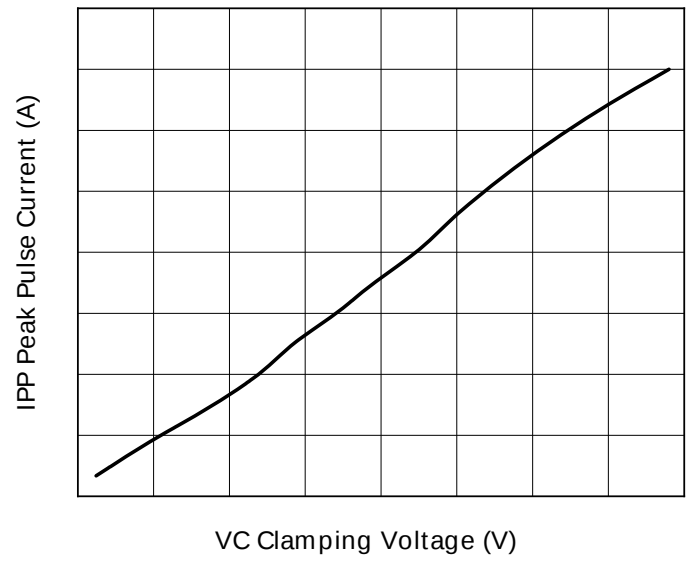


Fig.2: Peak Pulse Current vs Clamping Voltage



Technical drawing of a 125mm x 130mm x 25mm box. The drawing includes a top view and a side view. The top view shows a rectangular box with dimensions 125mm (width) and 130mm (length). The side view shows a cross-section with a height of 25mm. The drawing includes a title block with the following information:

Part Name:	125mm x 130mm x 25mm Box
Drawing Number:	125-130-25
Date:	12/12/2010
Author:	J. Smith

Note: BODY SIZE EXCLUDES MOLDED FLASH AND GATE. DRAWING IS FOR REFERENCE PURPOSES ONLY.

DIMENSIONS				
SYMBOL	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100

TOP VIEW

SIDE VIEW

SUGGESTED SOLDER PAD LAYOUT

UNITS: mm

NO. OF PINS: 16

PACKAGE: DIP

TOLERANCE: 0.100mm

OTHER PADS: 0.100mm

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



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with automotive electronics are not designed for use in medical, life-saving, lifesustaining, or military, Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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