



2- Line, Bi-directional, ESD protection diode

Features

Transient protection for each line according to

IEC61000-4-2(ESD):

IEC61000-4-5:9

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

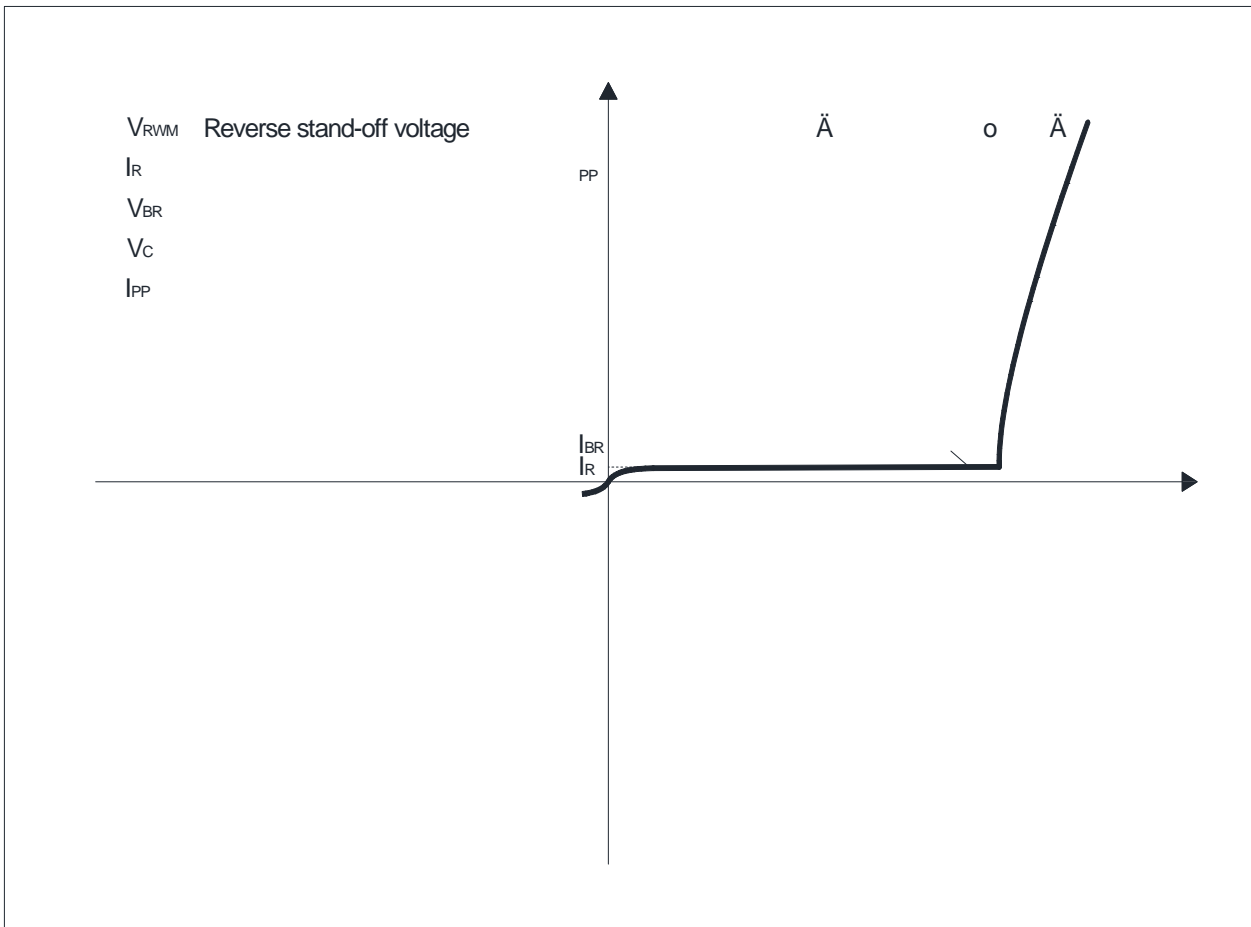
Package: SOT-23

Lead Finish: Matte Tin

Case Material: "Green" Molding Compound

Moisture Sensitivity: Level 1 per J-STD-020

Definitions of electrical characteristics





ESD1502EBQ

Maximum Ratings

PARAMETER		LIMITS	UNIT
Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	270	W
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	
Junction temperature	T_J	-55~150	
Storage temperature	T_{STG}	-55~150	

Notes:

CAUTION: Stresses above those listed above may cause permanent damage to the device. Maximum ratings are not to be exceeded for continuous operation.



Characteristics (Typical)

Fig.1: 8/20 μ s Pulse Waveform

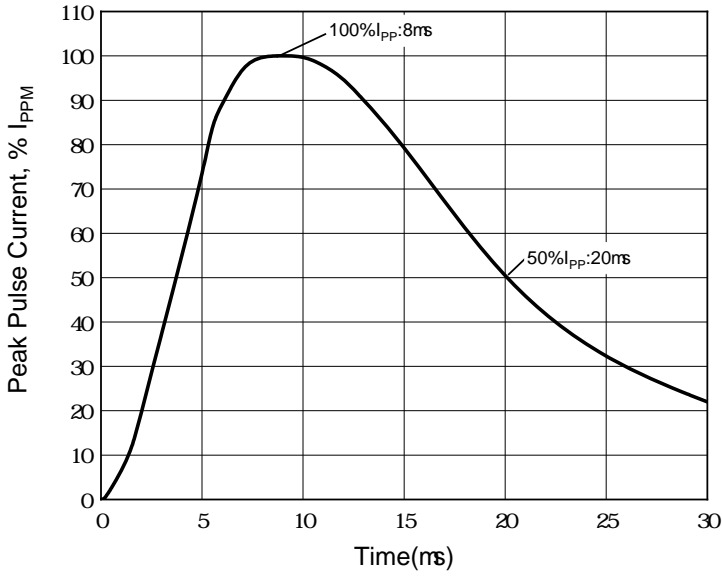


Fig.2: Peak Pulse Current vs Clamping Voltage

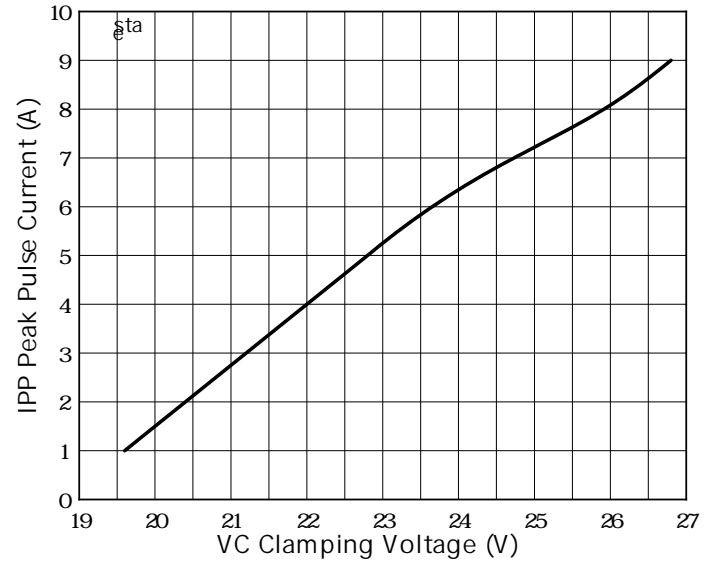
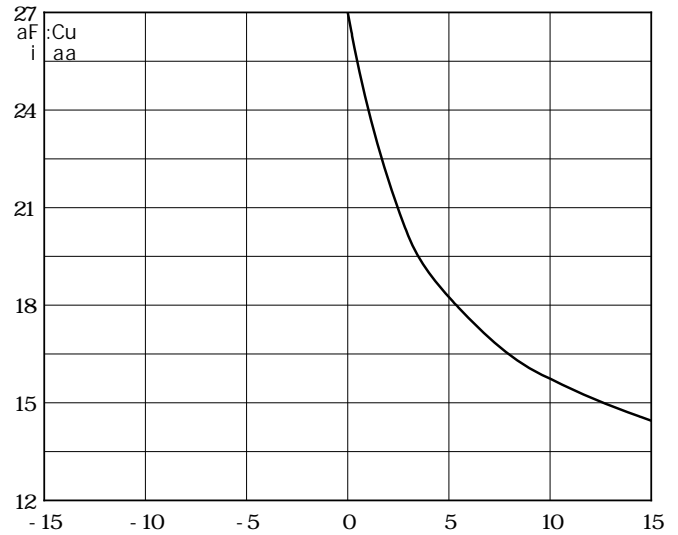
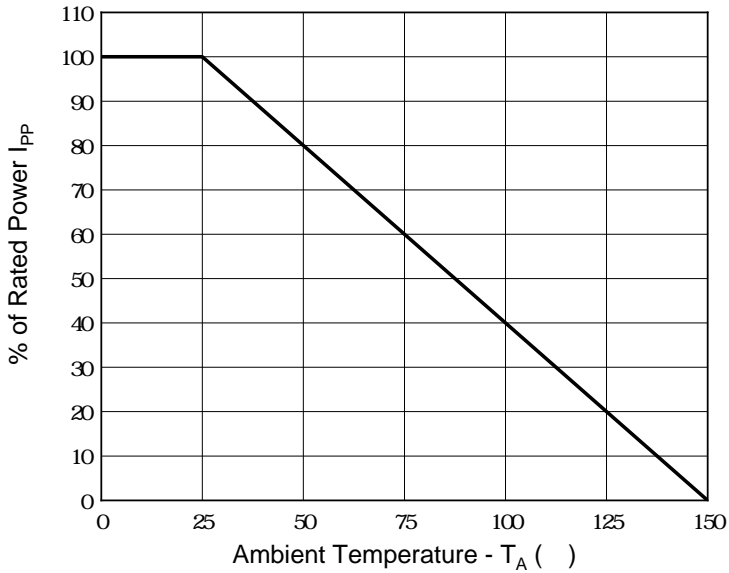


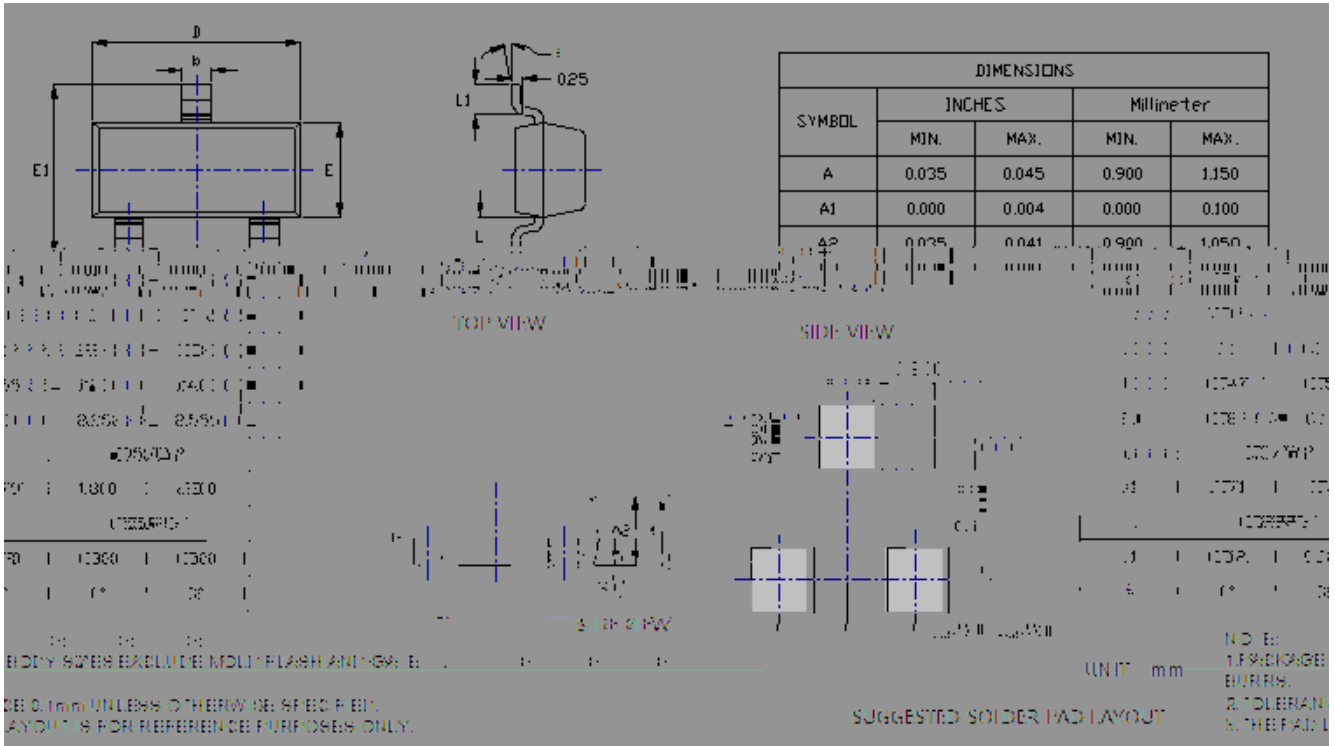
Fig.3: Power Derating Curve



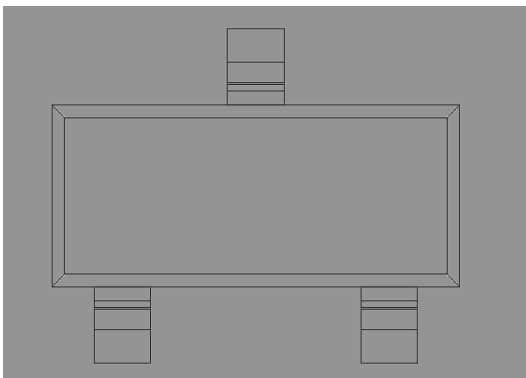


ESD1502EBQ

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



ESD1502EBQ

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.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.