



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

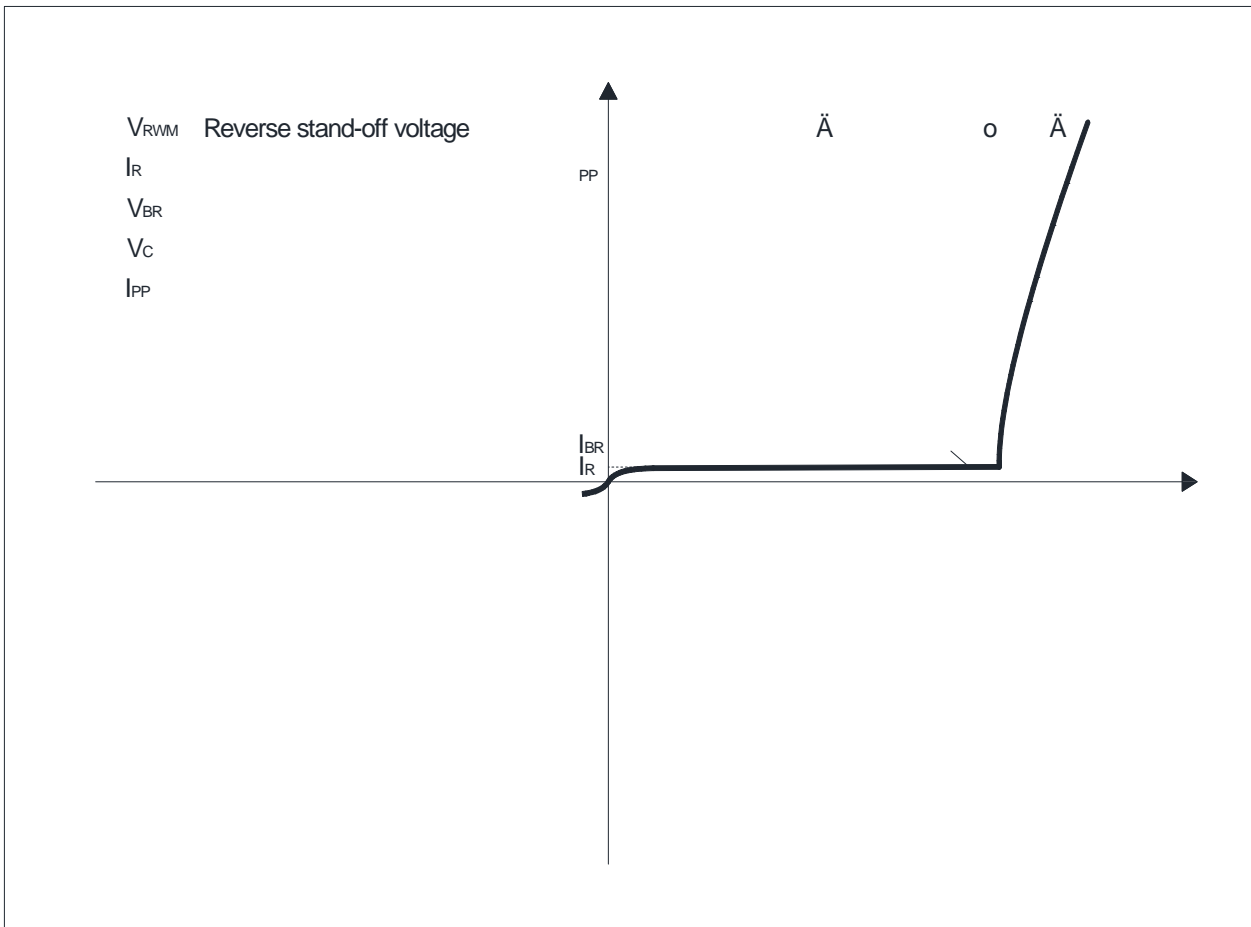
Package: SOT-23

Lead Finish: Matte Tin

Case Material: "Green" Molding Compound

Moisture Sensitivity: Level 1 per J-STD-020

Definitions of electrical characteristics





ESD1502EBQ

Maximum Ratings

		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 f m



Characteristics (Typical)

Fig.1: 8/20μs Pulse Waveform

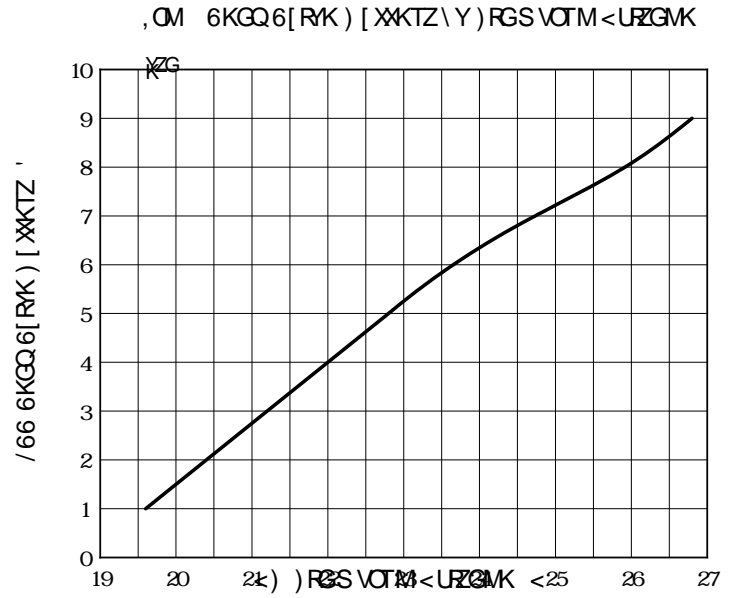
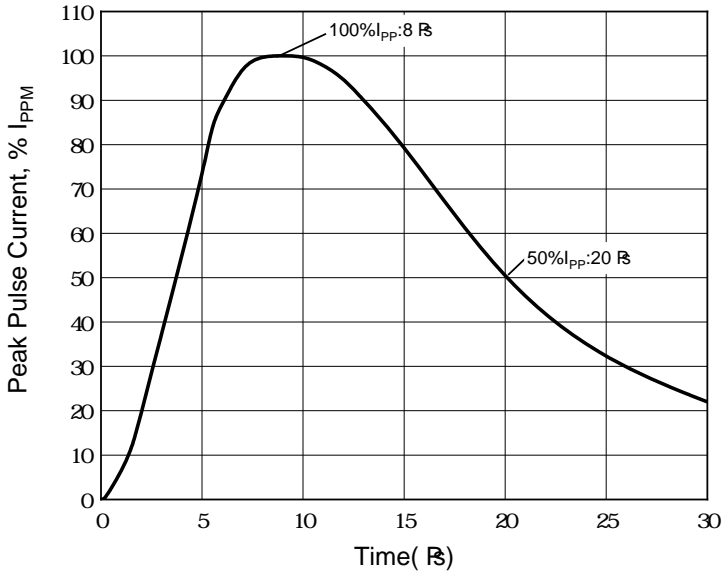
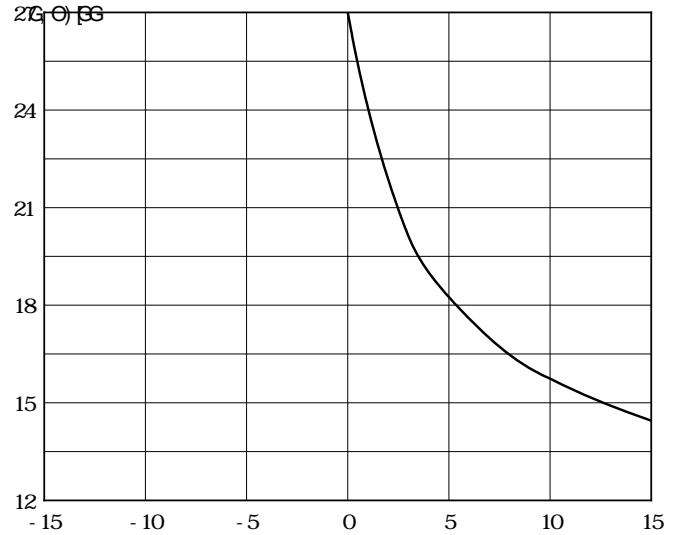
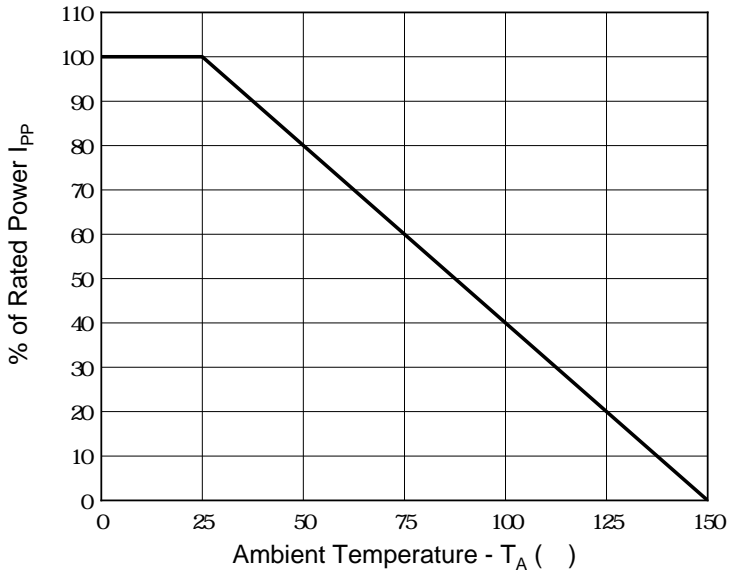


Fig.3: Power Derating Curve





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

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