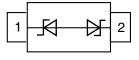


Automotive TVS for BMS in SOD-323

Features

- 220Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- AEC Q101 qualified
- Medium capacitance (Cj=15pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±30kV contact ±30kV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 5A (8/20µs)





Mechanical Data

- Case: SOD-323 (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

■ LIN Bus protection

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	220	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	30/30	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	5	Α
Junction Temperature	TJ	-55 to +150	$^{\circ}\!\mathbb{C}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$ C

Electrical Characteristics

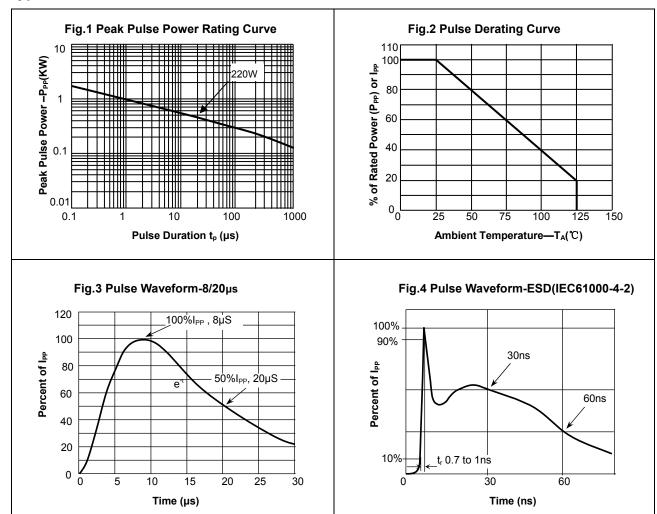
(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage(Pin 1 to Pin 2)	V_{RWM1}				15	V
Reverse stand-off Voltage(Pin 2 to Pin 1)	V _{RWM2}				24	V
Reverse Breakdown Voltage(Pin 1 to Pin 2)	V_{BR1}	I _T =1mA	16.7			٧
Reverse Breakdown Voltage(Pin 2 to Pin 1)	V_{BR2}	I _T =1mA	26.7			V
Reverse Leakage Current(Pin 1 to Pin 2)	I _{R1}	V _R =15V			1	uA
Reverse Leakage Current(Pin 2 to Pin 1)	I _{R2}	V _R =24V			1	uA
Clamping Voltage (IEC 61000-4-5)(Pin 1 to Pin 2)	V _{C1}	I _{PP} =5A		26		V
Clamping Voltage (IEC 61000-4-5)(Pin 2 to Pin 1)	V _{C2}	I _{PP} =5A		44		٧
Junction Capacitance	Сл	V _R =0V, f=1MHz		15		pF

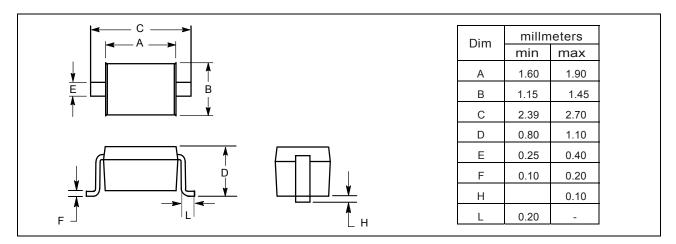
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Typical Characteristics ($T_{amb} = 25 \, ^{\circ}\text{C}$ unless otherwise specified)

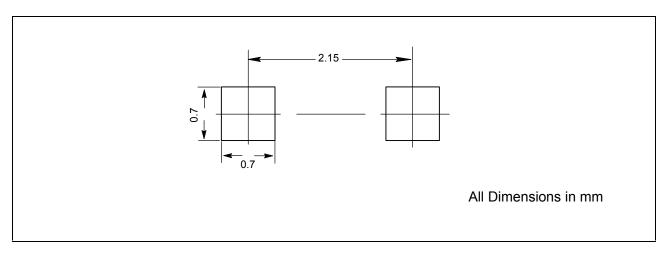


Package Dimensions





Pad Dimensions



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD323CA1524B	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2018	1.0	Initial release

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