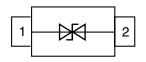


Ultra Low capacitance ESD Protection Diode in SOD-323

Features

- 300Watts peak pulse power (tp = 8/20µs)
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance (Cj=0.6pF 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) 20A (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

- Ethernet 10/100/1000 Base T
- Cellular Phones
- Notebook
- Handheld Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

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}	300	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	30/30	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	20	Α
Junction Temperature	TJ	-55 to +125	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$

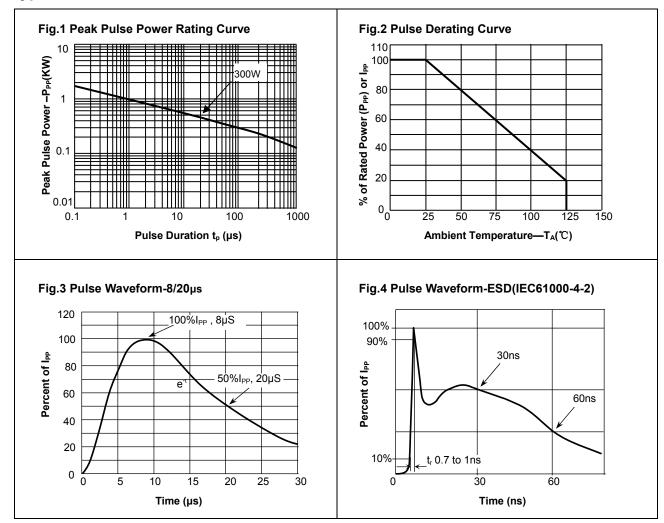
Electrical Characteristics

 $(T_A = 25 \, ^{\circ}C \text{ unless otherwise specified})$

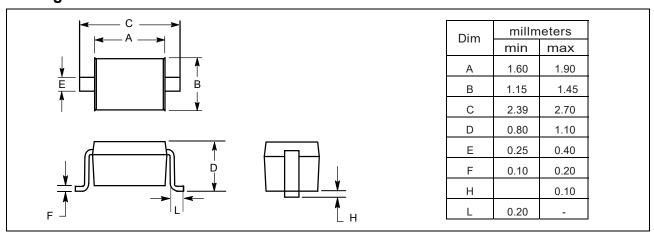
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	4.0			٧
Reverse Leakage Current	I _R	V _R =3.3V			0.2	uA
Clamping Voltage (IEC 61000-4-5)	V _C	I _{PP} =20A		13.5		V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.6		pF



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

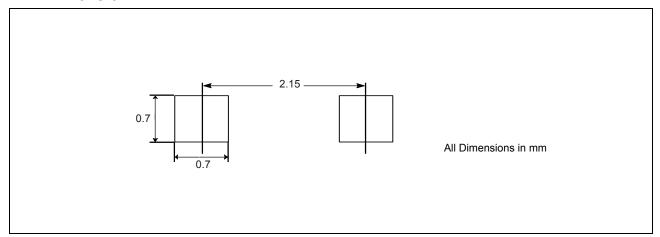


Package Dimensions

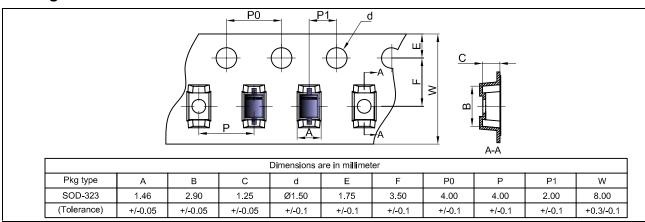




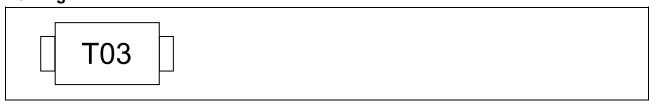
PAD Dimension



Package Information



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD323UC3V3B	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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