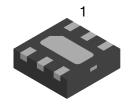
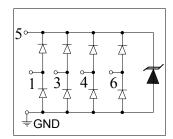


Low Capacitance ESD TVS Array in DFN1616-6L

Features

- 68Watts peak pulse power (tp = 8/20µs)
- DFN1616-6L Package
- Unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Low capacitance (0.4pF typical I/O to I/O)
- ESD Protection for high-speed data lines to: IEC 61000-4-2 ±15KV contact ±15KV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 4.5A (8/20µs)





Mechanical Data

- Case: DFN1616-6L (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Applications

- FireWire & USB
- Sensitive Analog Inputs
- Portable Electronics
- LAN/WAN equipment
- Microcontroller Input 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}	68	W
ESD contact/air discharge (IEC-61000-4-2)	V _{ESD}	15/15	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	4.5	Α
Junction Temperature	TJ	-55 to +125	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$ C

Electrical Characteristics

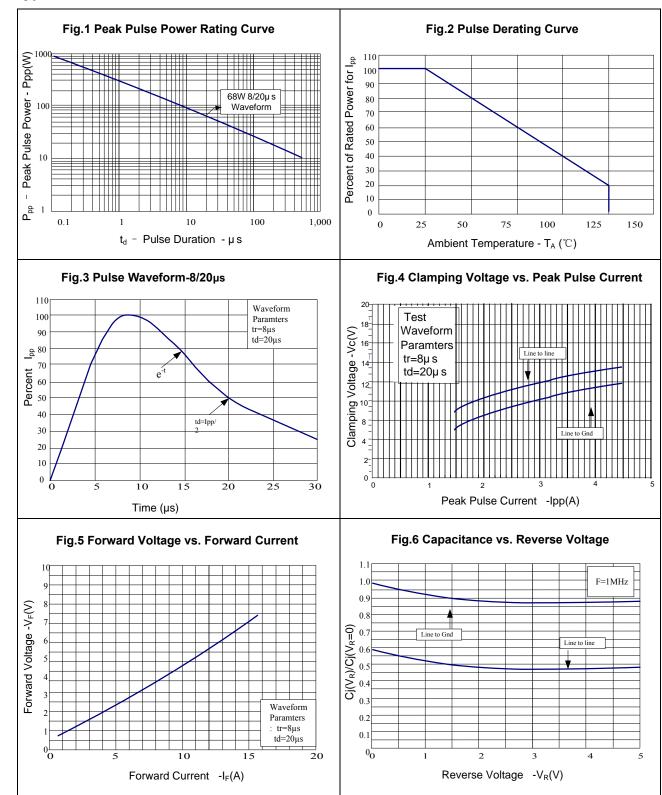
 $(T_A = 25 \, ^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6			V
Reverse Leakage Current	I _R	V _R =5V			200	nA
Clamping Voltage(SURGE)	V _C	I _{PP} =4.5A,T _P =8/20μS		12	16	V
Junction Capacitance	CJ	V _R =0V,f=1MHz, I/O to I/O		0.4	0.6	pF
Tourion Capacitance	CJ	V _R =0V,f=1MHz, I/O to GND		0.8	1.0	pF

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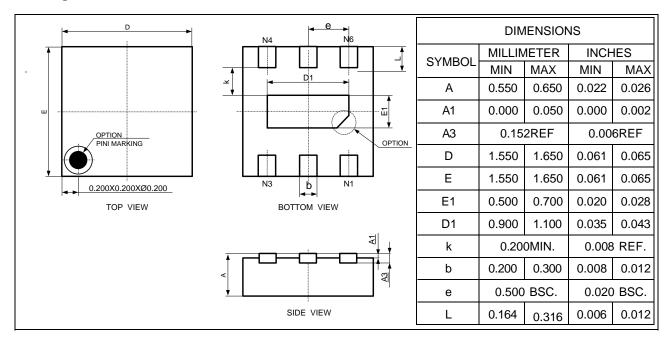
Typical Characteristics ($T_{amb} = 25 \, ^{\circ}\text{C}$ unless otherwise specified)



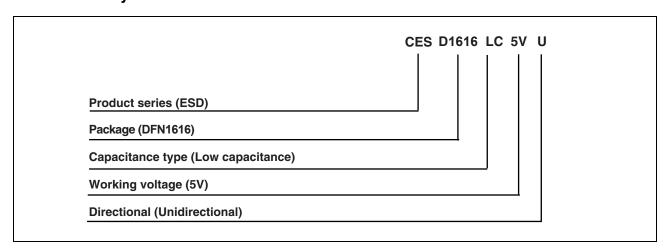
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Package Dimensions



Part number system



Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
CESD1616LC5VU	54R	DFN1616-6L	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
18-Dec2016	1.0	Initial release

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