



QUAD BI-DIRECTIONAL TVS/ZENER FOR ESD PROTECTION

This Quad TVS/Zener Array has been designed to Protect Sensitive Equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating at 5Vdc and below. This TVS array offers an integrated solution to protect up to 4 data lines where the board space is a premium.

SPECIFICATION FEATURES

- 150W Power Dissipation (8/20µs Waveform)
- Low Leakage Current, Maximum of 1µA @ 5Vdc
- Very low Clamping voltage (Max of 10V @ 14A 8/20µs)
- IEC61000-4-2 ESD 15kV air, 8kV Contact Compliance
- Industry standard SOT23-6L
- 100% Tin Matte Finish (RoHS Compliant)

APPLICATIONS

- Personal Digital Assistant (PDA)
- SIM Card Port Protection (Mobile Phone)
- Portable Instrumentation
- Mobile Phones and Accessories
- Computer Data Ports

MAXIMUM RATINGS

6 5 4 1 2 3 SOT23-6L				
Marking Code				
616				

Rating	Symbol	Value	Units
Peak Pulse Power (8/20µs Waveform)	P _{pp}	150	W
Peak Pulse Current (8/20µs Waveform)	I _{pp}	14	А
ESD Voltage (HBM)	V _{ESD}	>25	kV
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

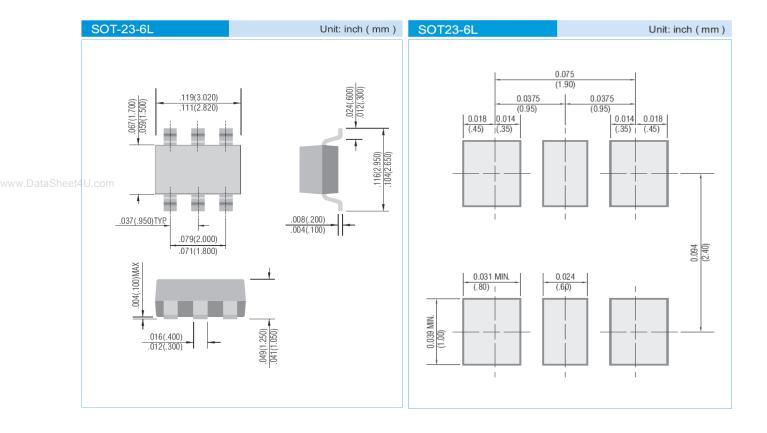
ELECTRICAL CHARACTERISTICS Tj = 25°C

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{WRM}				5	٧
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1 mA	6.2		7.2	V
Reverse Leakage Current	I _R	V _R = 5V			1	μΑ
Clamping Voltage (8/20µs)	V _c	I _{pp} = 5 Amps			11	V
Clamping Voltage (8/20µs)	V _c	I _{pp} = 10 Amps			13	V
Off State Junction Capacitance	Cj	0 Vdc Bias f = 1MHz Between I/O pins and pin 7			90	pF
Off State Junction Capacitance	Cj	5 Vdc Bias f = 1MHz Between I/O pins and pin 7			50	pF





PACKAGE LAYOUT DIMENSIONS



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