

QUAD TVS/ZENER ARRAY FOR ESD AND LATCH-UP PROTECTION

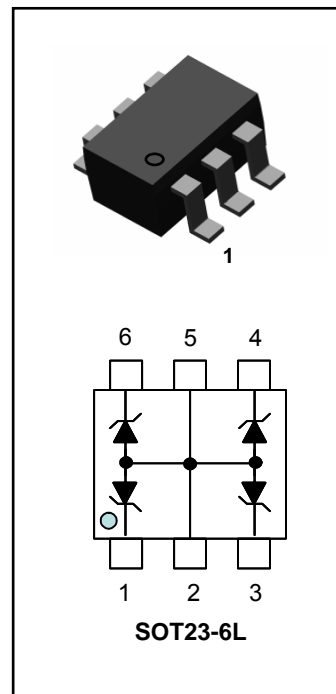
This Quad TVS/Zener Array family have been designed to Protect Sensitive Equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating in the 3.0Vdc. This TVS array offers an integrated solution to protect up to 4 data lines where the board space is a premium.

SPECIFICATION FEATURES

- 150W (8/20μs), 24W (10/1000μs) Power Dissipation
- Low Leakage Current, Maximum of 2μA at rated voltage
- Very Low Clamping Voltage
- IEC61000-4-2 ESD 20kV air, 15kV Contact Compliance
- Industry Standard Surface Mount Package SOT23-6L
- 100% Tin Matte Finish (RoHS Compliance)
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

APPLICATIONS

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



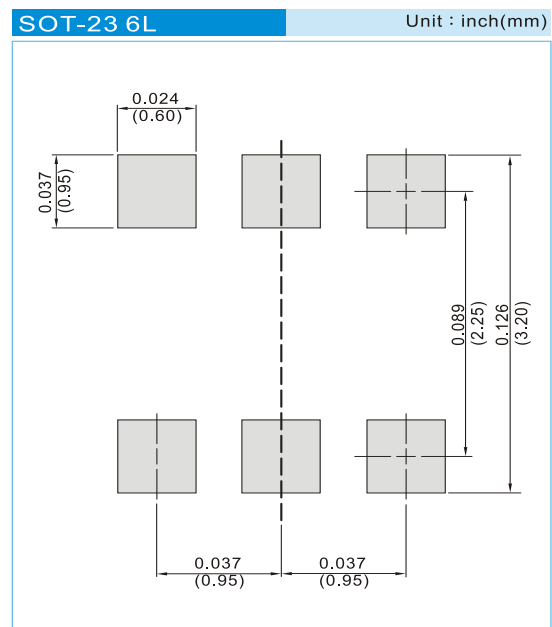
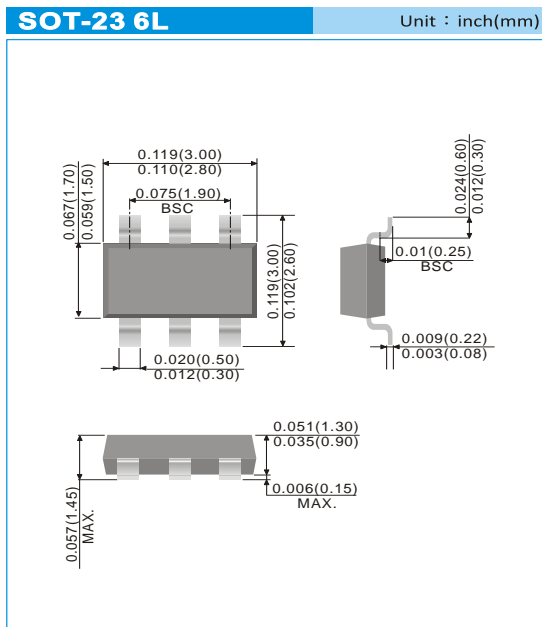
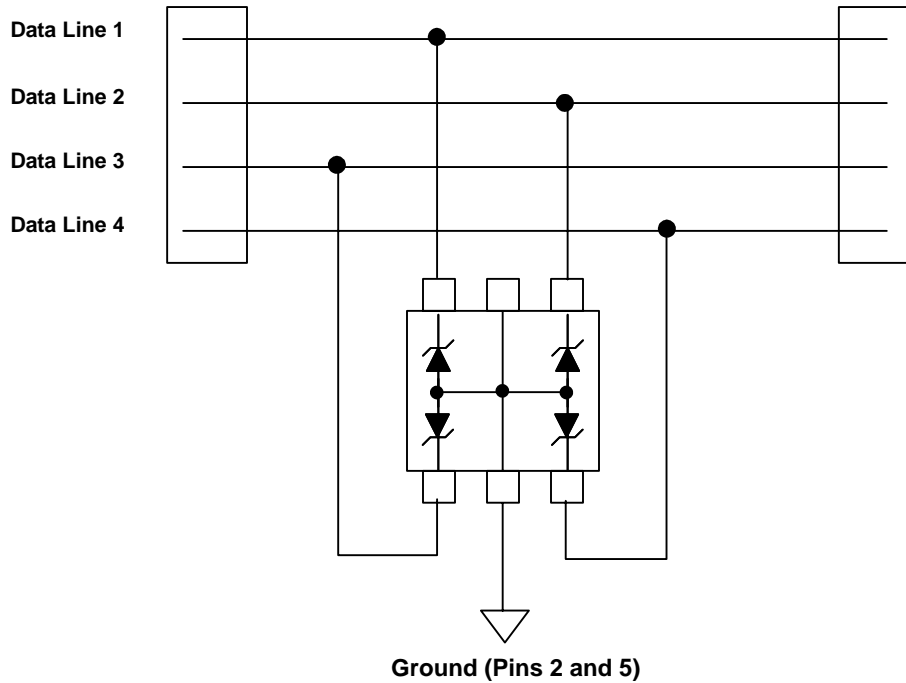
MAXIMUM RATINGS (Per Device)

Rating	Symbol	Value	Units
Peak Pulse Power (8/20μs Waveform)	P_{pp}	150	W
ESD Voltage (HBM)	V_{ESD}	25	kV
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Per Device) $T_J = 25^{\circ}\text{C}$

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{WRM}				3.0	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR} = 1 \text{ mA}$	5.3	5.6	5.88	V
Reverse Leakage Current	I_R	$V_R = 3.0\text{V}$			2	μA
Clamping Voltage (8/20μs)	V_C	$I_{pp} = 5 \text{ Amps}$			8	V
Clamping Voltage (8/20μs)	V_C	$I_{pp} = 10 \text{ Amps}$			9.1	V
Off State Junction Capacitance	C_j	0 Vdc Bias $f = 1\text{MHz}$ Between I/O pins and pin 2,5			265	pF
Off State Junction Capacitance	C_j	3 Vdc Bias $f = 1\text{MHz}$ Between I/O pins and pin 2,5			160	pF

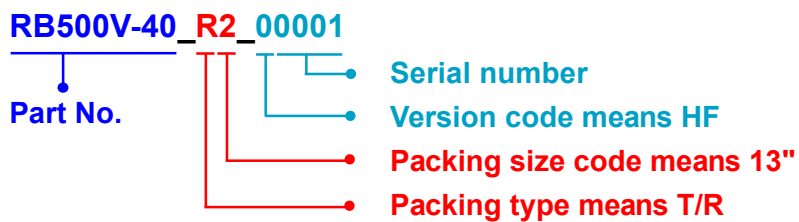
TYPICAL APPLICATION EXAMPLE AND PACKAGE DIMENSIONS



Part No_packing code_Version

PJQA5V6_R1_00001
 PJQA5V6_R2_00001
 PJQA5V6_S1_00001
 PJQA5V6_S2_00001

For example :



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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