

Low Capacitance TVS Diode Array

Primary characteristics				
Parameter	Symbol	Value	Unit	
ESD per IEC 61000-4-2 (contact)	Vesd	±8	kV	
ESD per IEC 61000-4-2 (air)	V _{ESD}	±15	kV	
Peak pulse power (8/20µs)	Ррр	300	W	

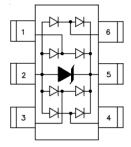
Features

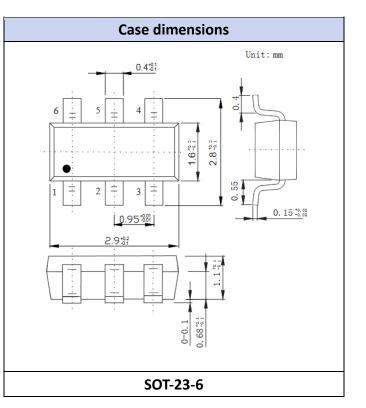
- **SOT-23-6** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- ESD protection for high-speed data lines
- Low clamping voltage
- Protects 4 I/O lines

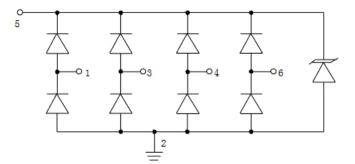
Applications

- Video interface protection
- USB ESD protection
- DVI protection
- 10/100 ethernet protection
- Gigabit ethernet protection
- Please contact Akyga Semi for more application information (like circuit examples)

Pin configuration



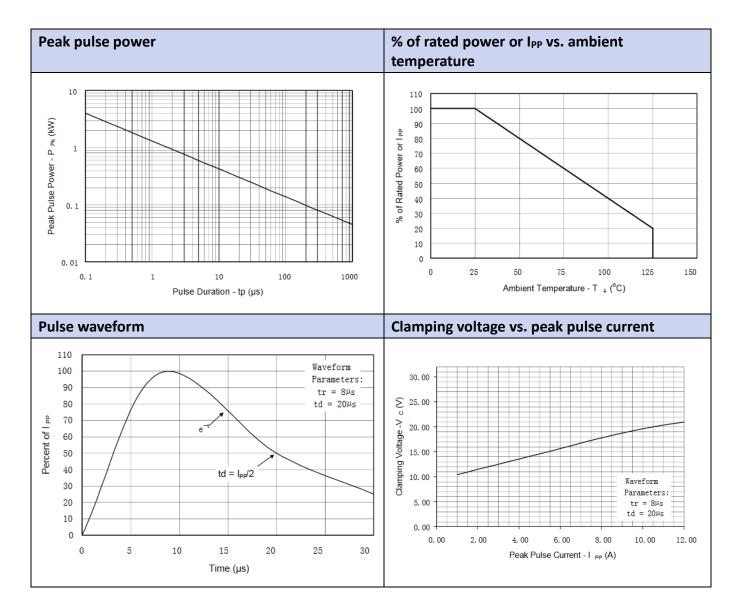




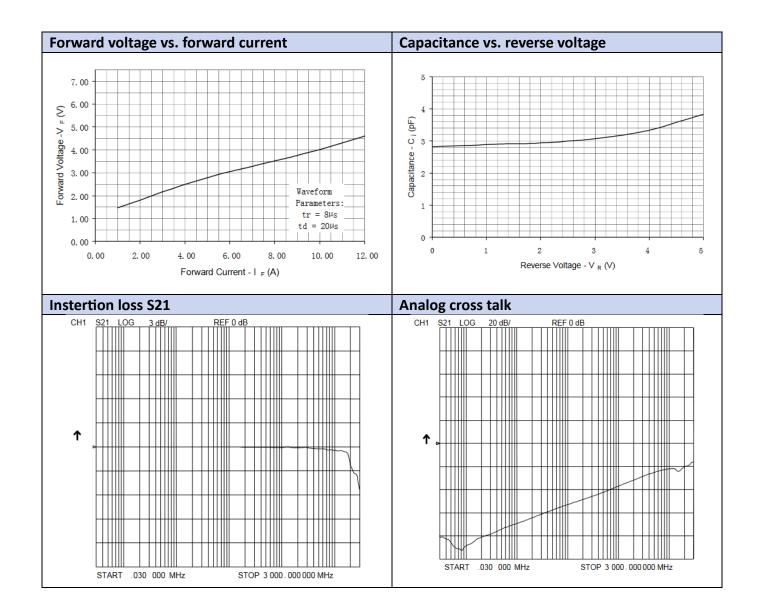
Maximum ratings and electrical characteristics (T _a = 25°C)						
Characteristics	Test condition	Symbol	Value			Unit
Characteristics		Symbol	Min.	Тур.	Max.	Unit
ESD per IEC 61000-4-2	Contact	N	-	-	8.0	kV
ESD per IEC 61000-4-2	Air	VESD	-	-	15	
Peak pulse power	t _p =8/20μs	Ррр	-	-	300	W
Peak pulse current	t _p =8/20μs	Ірр	-	-	12	А
Operating temperature	-	Торт	-55	-	150	°C
Storage temperature	-	T _{STG}	-55	-	150	°C



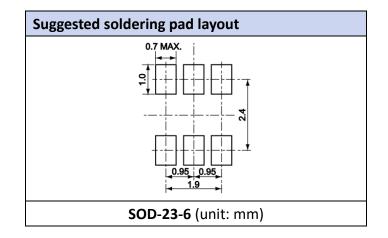
Maximum ratings and electrical characteristics ($T_a = 25^{\circ}C$)						
Characteristics	Test condition	Sumbol	Value			L Lucit
		Symbol	Min.	Тур.	Max.	Unit
Lead solder temperature	Maximum (10 second duration)	Τι			260	°C
Reverse stand-off voltage	Pin 5 to 2	Vrwm			5.0	V
Reverse breakdown voltage	IT=1.0mA	V _{BR}	6.0	-	-	V
Reverse leakage current	V _{RWM} =5.0V, Pin 5 to 2	IR	-	-	5.0	μA
Forward voltage	I⊧=15mA	VF	-	-	1.2	V
Clamping voltage	Ipp=1.0A, tp=8/20µs	N	-	-	12.5	V
	I _{PP} =5.0A, t _p =8/20μs	Vc	-	-	17.5	V
Junction capacitance	V _R =0V, f=1.0MHz		-	3.0	5.0	рF
	Any I/O pin to ground	C,		0.0		
	V _R =0V, f=1.0MHz	C)	-	1.5	-	PI
	Between I/O pins					











Ordering information					
Part Number	Package	Shipping Quantity	Industry standard		
SRV05-4	SOT-23-6	3 000 pcs / 7" reel	EIA-481-1		

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