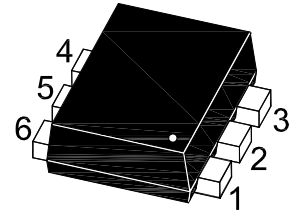
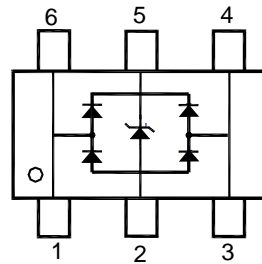


ESDL0502DE

Low Capacitance TVS Array

Features

- Protects up to two I/O lines & power line
- Low leakage current and clamping voltage
- Low operating voltage



1. I/O1 2. GND 3. I/O2
4. I/O3 5. V_{CC} 6. I/O4
Marking Code: **A**
SOT-563 Plastic package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Pulse Power (t _p = 8/20 μs)	P _{PK}	50	W
Peak Pulse Current (t _p = 8/20 μs)	I _{PP}	3	A
ESD Discharge (IEC61000-4-2)	Air Contact V _{ESD}	± 20 ± 15	KV
Junction Temperature	T _j	- 55 to + 125	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

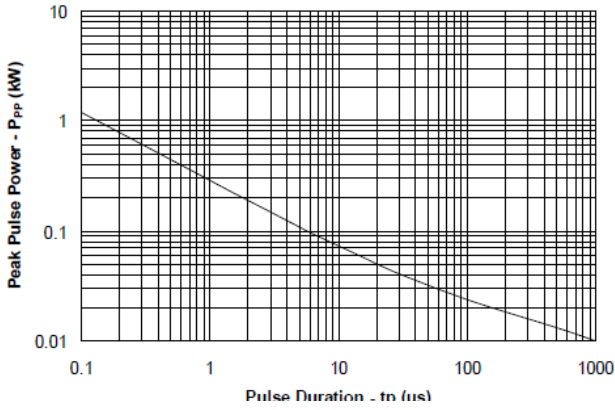
Parameter	Symbol	Min.	Max.	Unit
Reverse Working Voltage Between I/O lines to Gnd or I/O to I/O	V _{RWM}	-	5	V
Reverse Breakdown Voltage at I _R = 1 mA, Between I/O lines to Gnd	V _{(BR)R}	6	-	V
Reverse Current at V _{RWM} = 5 V, Between I/O lines to Gnd or I/O to I/O	I _R	-	1	μA
Clamping Voltage at I _{PP} = 1 A, t _p = 8/20 μs, Between I/O lines to Gnd at I _{PP} = 3 A, t _p = 8/20 μs, Between I/O to Gnd at I _{PP} = 3 A, t _p = 8/20 μs, Between I/O to I/O	V _C	- - -	14 16 18	V
Junction Capacitance at V _R = 0 V, f = 1 MHz, Between I/O to Gnd at V _R = 0 V, f = 1 MHz, Between I/O to I/O	C _j	- -	0.9 0.7	pF

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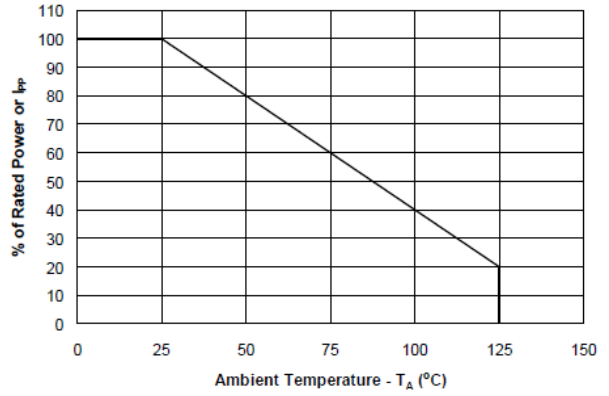


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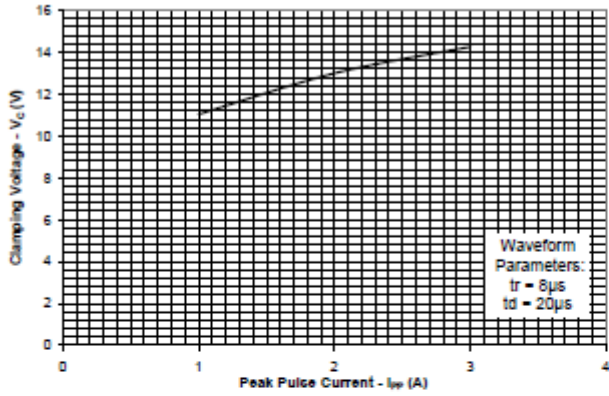
Non-Repetitive Peak Pulse Power vs. Pulse Time



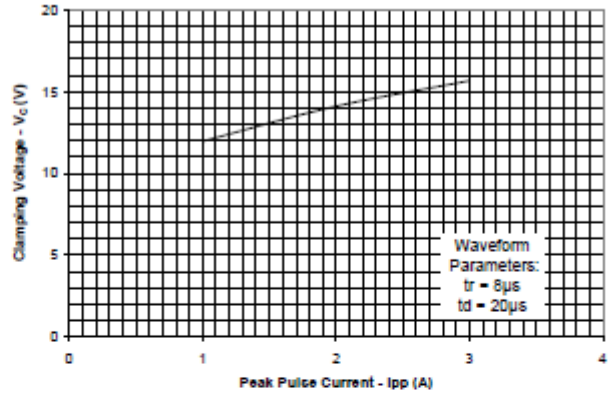
Power Derating Curve



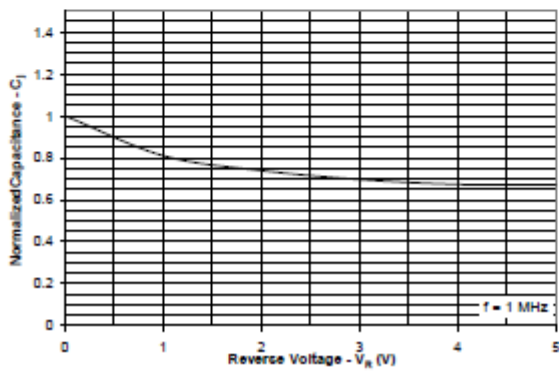
**Clamping Voltage vs. Peak Pulse Current
I/O to Gnd - Pin 1, 3, 4, 6 to Pin 2**



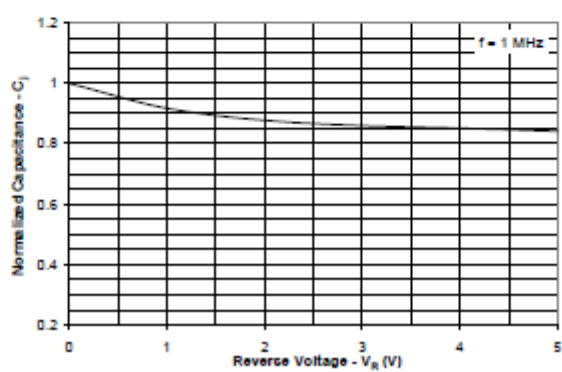
**Clamping Voltage vs. Peak Pulse Current
I/O to I/O**



**Normalized Capacitance vs. Reverse Voltage
I/O to Gnd - Pin 1, 3, 4, or 6 to Pin 2**



**Normalized Capacitance vs. Reverse Voltage
I/O to I/O**



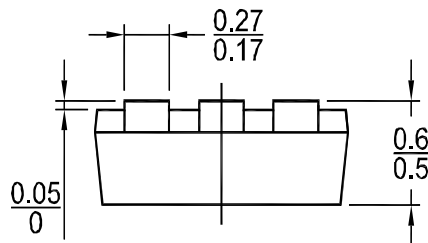
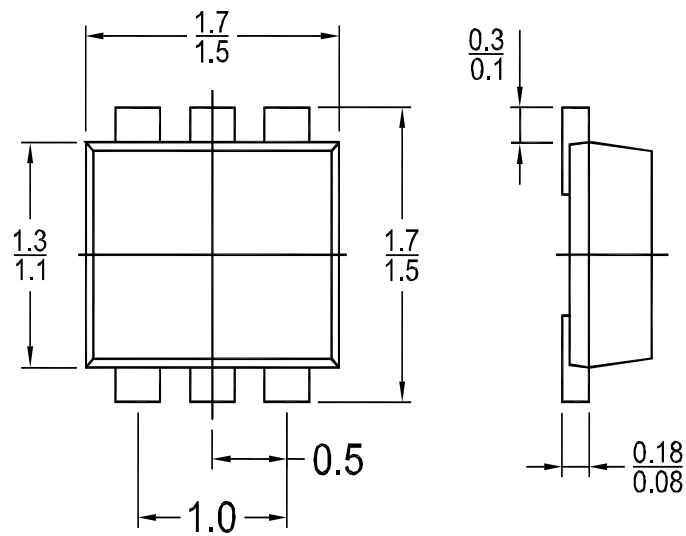
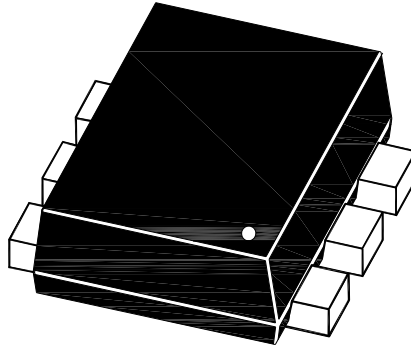
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ISO14001 : 2004 Certificate No. 121535007
 ISO 9001 : 2008 Certificate No. 50114012
 OHSAS 18001 : 2007 Certificate No. 05191506006
 IECQ QC 080000 Certificate No. ESDH100111002

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SOT-563 Package Outline Dimensions (Units: mm)



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