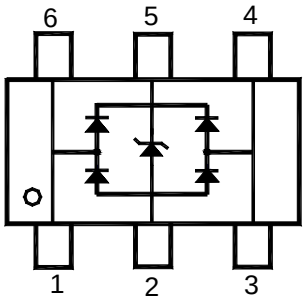
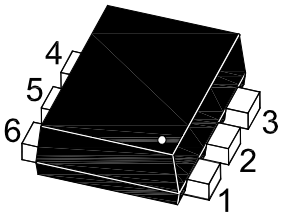
E5V0VUDE2H

Transient Voltage Suppressors Array

ESD protection





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

Features

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

Absolute Maximum Ratings (T_a = 25℃)

Parameter		Symbol	Value	Unit
Peak Pulse Power (t_p = 8/20 us)		P_{PK}	80	W
Peak Pulse Current (t_p = 8/20 µs)		I_{PP}	5	A
IEC61000-4-2 (ESD)	Air Contact	V_{ESD}	30 30	KV
Operating Temperature Range		T_j	-55 to + 125	℃
Storage Temperature Range		T_{stg}	- 55 to + 150	℃

Characteristics at T_a = 25℃

Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off 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	9	V
Reverse Current at V_{RWM} = 5 V, Between I/O lines to Gnd or I/O to I/O	I_R	-	0.1	µA
Clamping Voltage at I_{PP} = 1 A, t_p = 8/20 µs, Between I/O to Gnd at I_{PP} = 5 A, t_p = 8/20 µs, Between I/O to Gnd	V_C	- -	11 16	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 0.5	pF

Dated: 02/06/2020 Rev:01

Electrical Characteristics Curves

Fig 1. Pulse Waveform

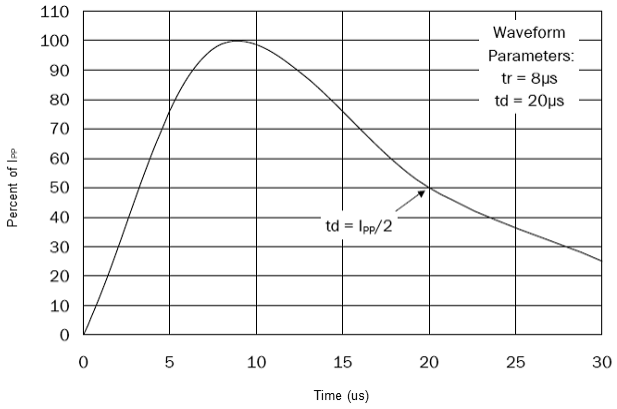


Fig 2. Power Derating Curve

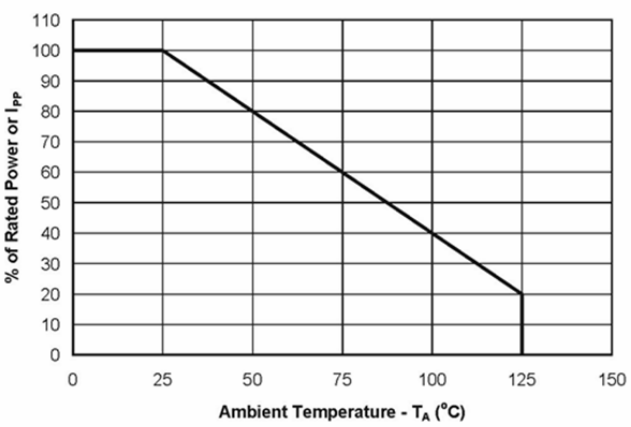


Fig 3. TLP

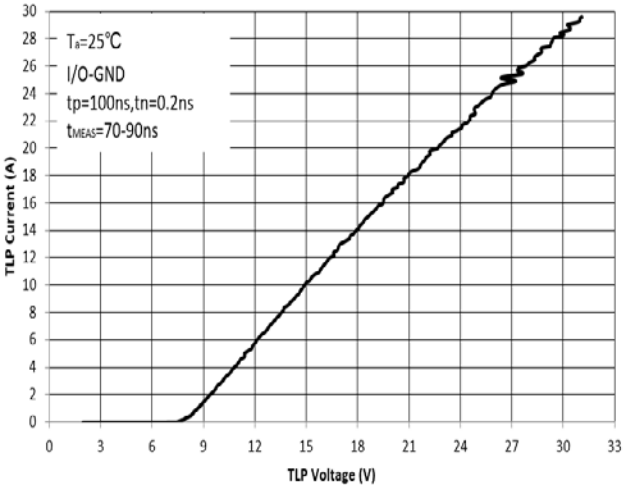


Fig 4. Clamping Voltage vs. Peak Pulse Current

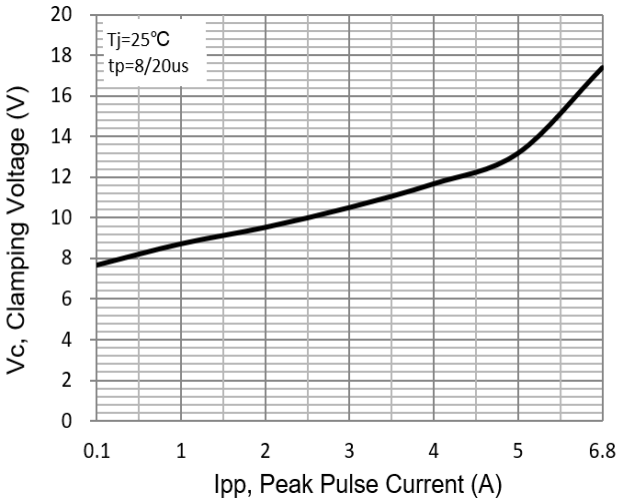
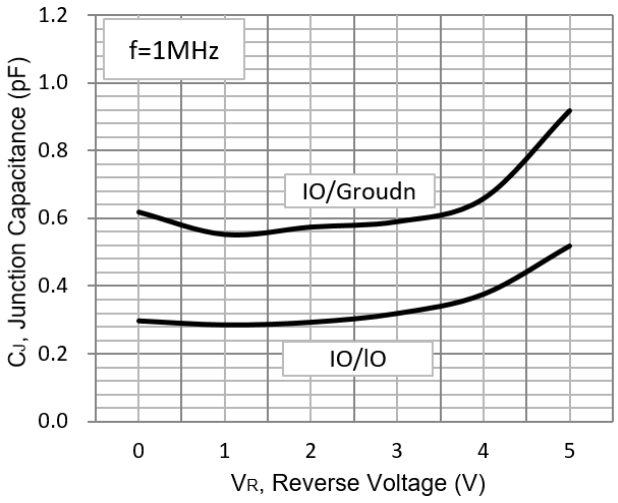


Fig 5. Junction Capacitance vs. Reverse Voltage



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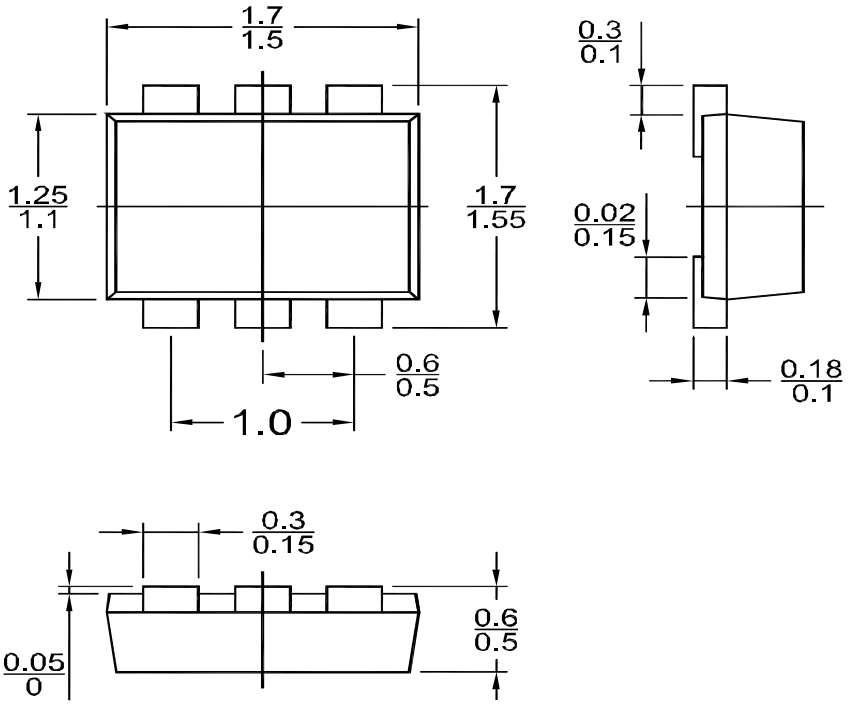
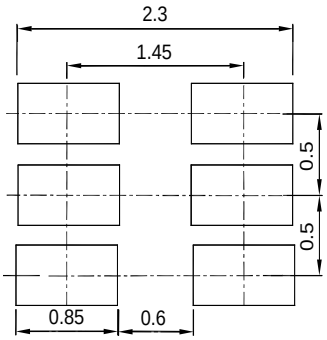
Package Outline Dimensions (Units: mm) SOT-563



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-563	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

Marking information

" A " = Part No.
" YM " = Date Code Marking
" Y " = Year
" M " = Month
Font type: Arial