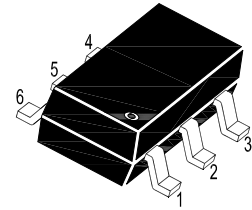
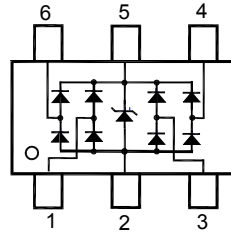


E5V0LUD4M

4-Channel Low Capacitance TVS Array

Features

- Low clamping voltage
- Low capacitance



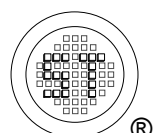
1. I/O1 2. GND 3. I/O2
4. I/O3 5. Vcc 6. I/O4
Marking Code: V5
SOT-26 Plastic package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PK}	300	W
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	12	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	± 30	KV
Operation Junction Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage at Pin 5 to 2	V_{RWM}	-	-	5	V
Reverse Breakdown Voltage at $I_t = 1 \text{ mA}$, Pin 5 to 2	$V_{(BR)R}$	6	-	-	V
Reverse Current at $V_{RWM} = 5 \text{ V}$, Pin 5 to 2	I_R	-	-	5	μA
Forward Voltage at $I_F = 15 \text{ mA}$	V_F	-	-	1.2	V
Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$, Any I/O Pin to Ground at $I_{PP} = 5 \text{ A}$, $t_p = 8/20 \mu\text{s}$, Any I/O Pin to Ground at $I_{PP} = 12 \text{ A}$, $t_p = 8/20 \mu\text{s}$, Any I/O Pin to Ground	V_C	- - -	- - -	12.5 17.5 25	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Any I/O Pin to Ground at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Between I/O Pins	C_j	- -	- 0.7	5 -	pF



Electrical Characteristics Curves

Fig 1. Pulse Waveform

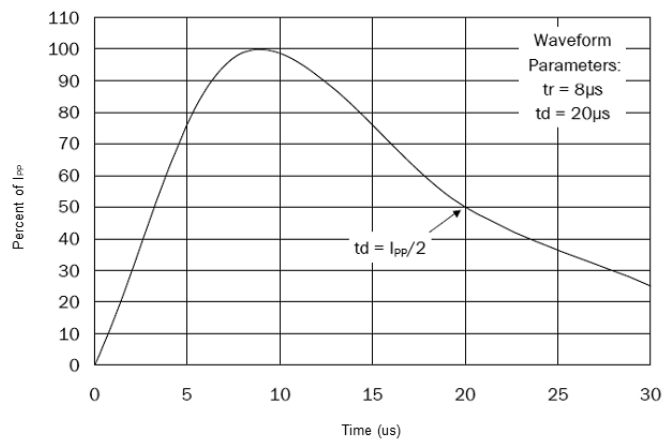


Fig 2. Power Derating Curve

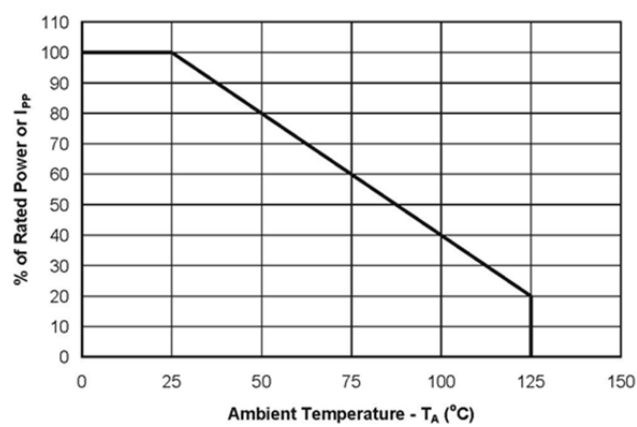


Fig 3. Junction Capacitance Curve

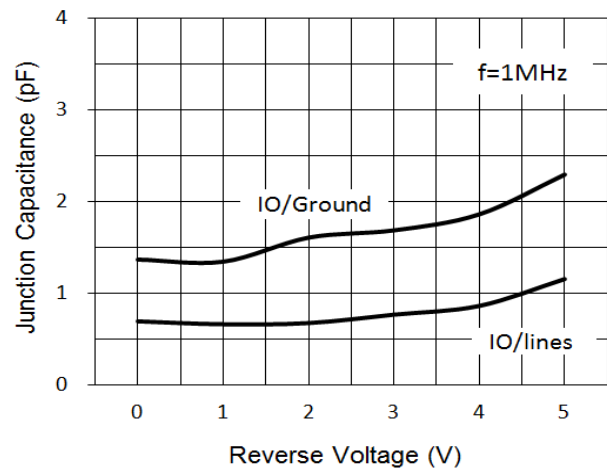


Fig 4. Clamping Voltage vs Peak Pulse Current

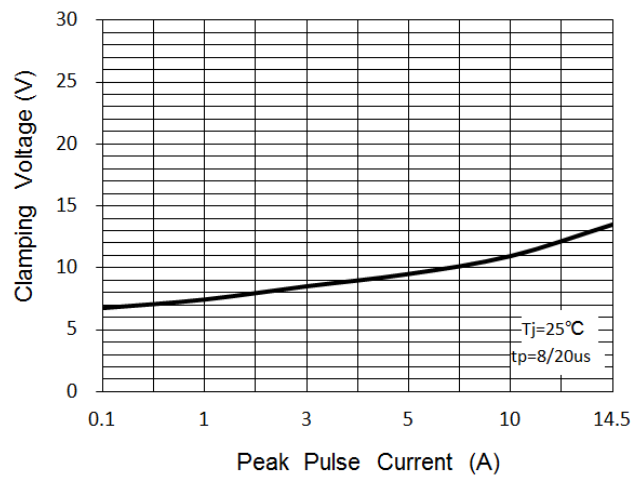
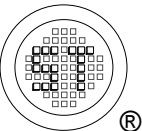
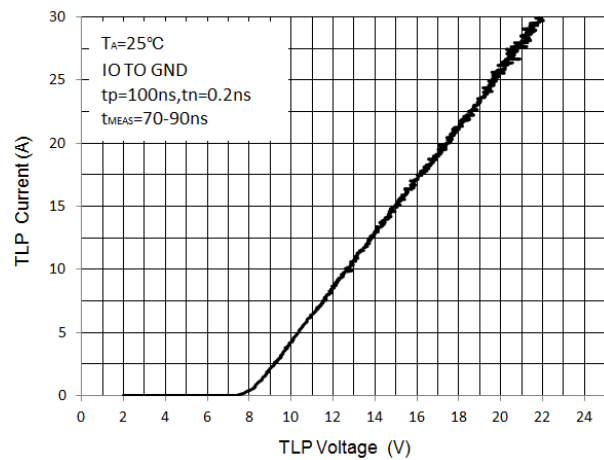
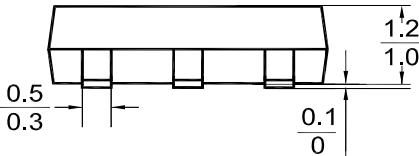
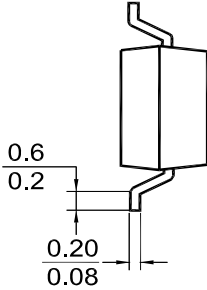
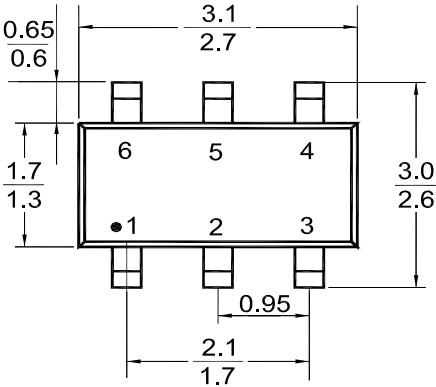


Fig 5. TLP Curve

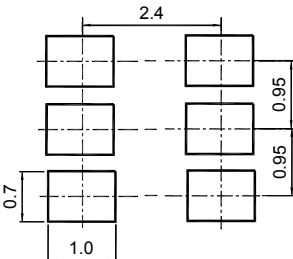


Package Outline Dimensions (Units: mm)

SOT-26



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-26	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

"V5" = Part No.
 "YM" = Date Code Marking
 "Y" = Year
 "M" = Month
 Font type: Arial

