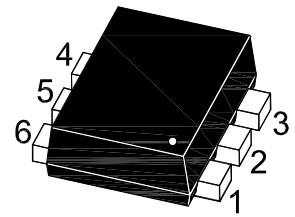
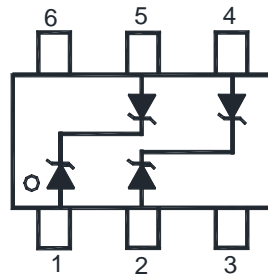


E5V5LBDE2J

Low Capacitance ESD Array

Features

- Low leakage current
- Low clamping voltage



1. I/O 2. I/O 3. NC
4. I/O 5. I/O 6. NC
Marking Code: 5J
SOT-563 Plastic package

Applications

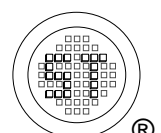
- Digital Camera
- Portable Media Players
- eBook
- Gaming Machines

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}	39	W
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	3	A
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 25 ± 20	KV
Operating Temperature	T_j	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.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	5.5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	V_{BR}	5.6	9	V
Leakage Current at $V_{RWM} = 5.5 \text{ V}$	I_R	-	100	nA
Clamping Voltage at $I_{PP} = 3 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	-	13	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	4	pF



E5V5LBDE2J

Electrical characteristic curves

Fig 1. Pulse Waveform

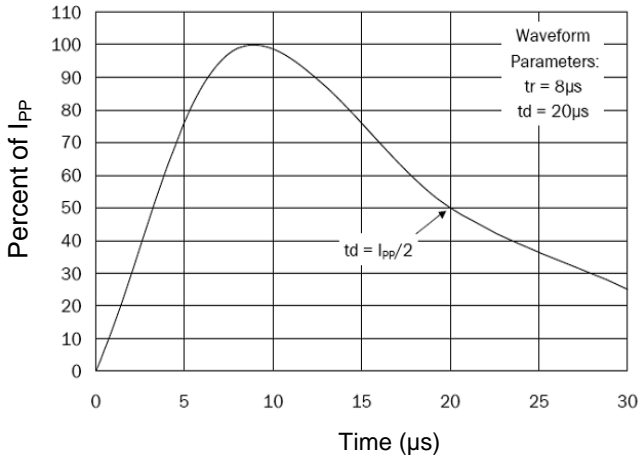


Fig 2. Power Derating Curve

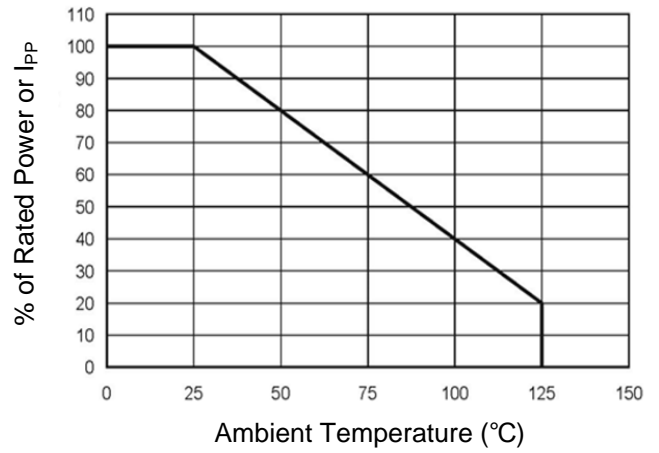


Fig 3. Clamping Voltage Curve

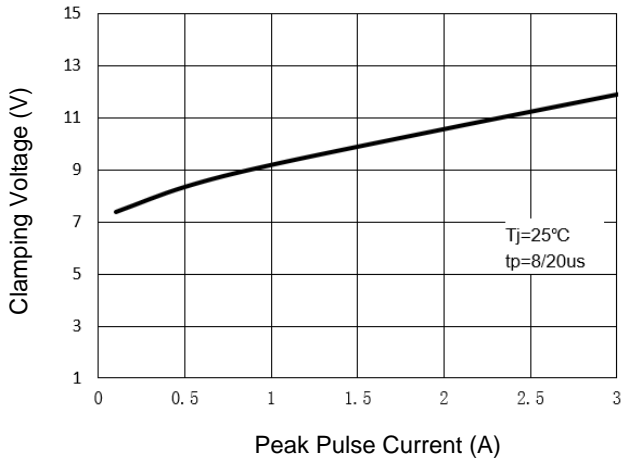


Fig 4. Junction Capacitance

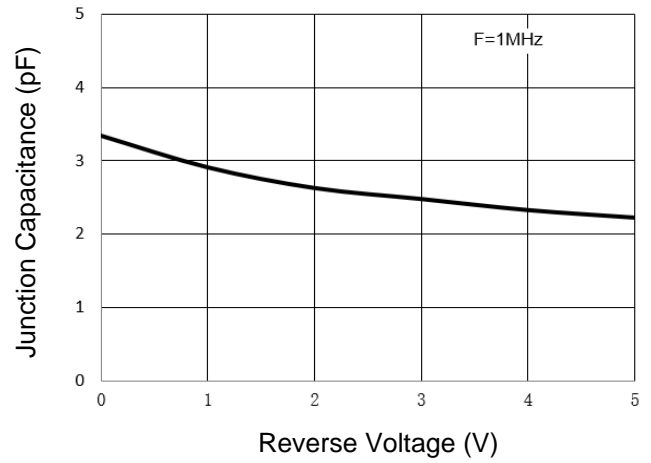
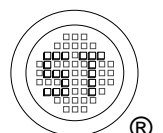
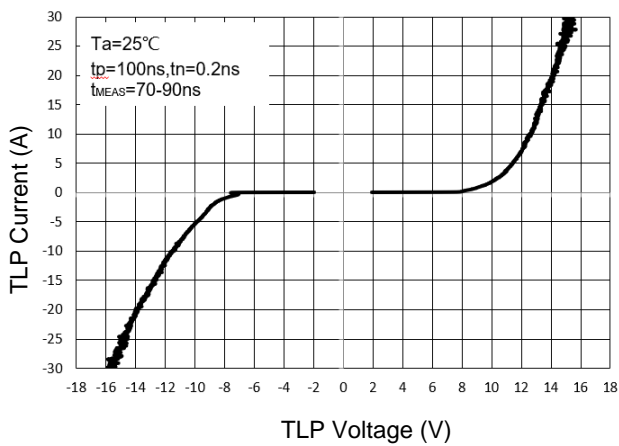


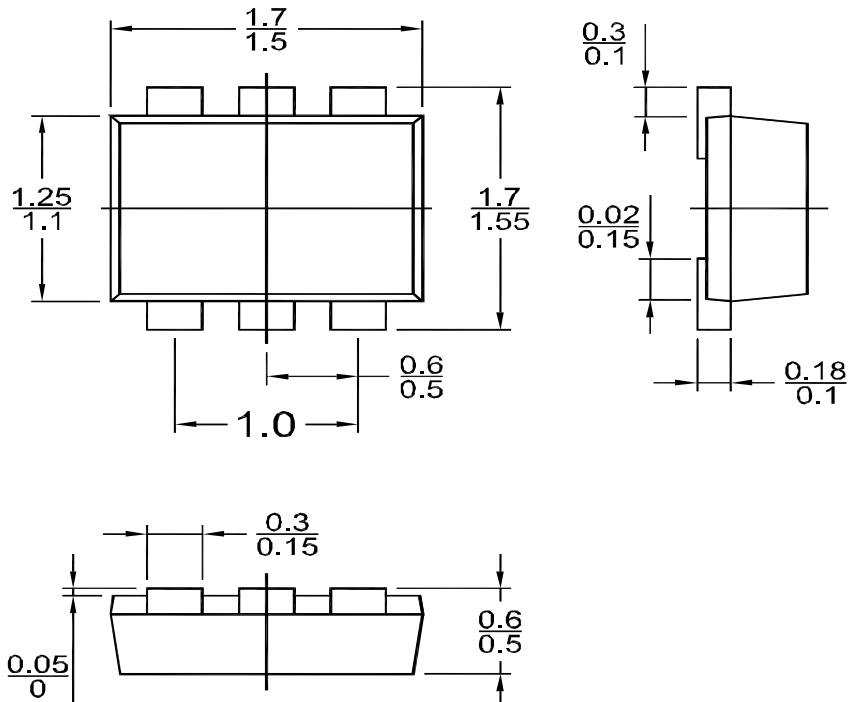
Fig 5 TLP Curve



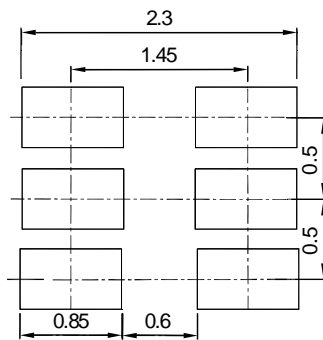
E5V5LBDE2J

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

" 5J " = Part No.
 " YM " = Date Code Marking
 " Y " = Year
 " M " = Month
 Font type: Arial

