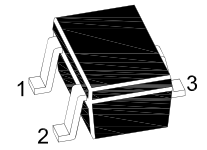
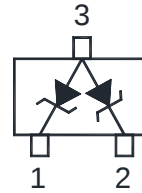


E5V0VUKC2C

ESD Protection

Features

- Protects up to two I/O lines
- Ultra Low Capacitance
- Low leakage current and clamping voltage
- Low operating voltage



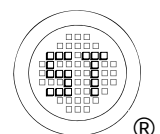
SOT-523 Plastic Package
Marking Code: **P5**

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

Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PK}	125	W
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	5	A
ESD Discharge (IEC61000-4-2) Air Contact	V_{ESD}	25 23	KV
Junction Temperature	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics (at $T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Max.	Unit
Reverse Working Voltage Pin 1 or Pin 2 to Pin 3 and Between Pins 1 and 2	V_{RWM}	-	5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$ Pin 1 or Pin 2 to Pin 3 and Between Pins 1 and 2	$V_{(BR)R}$	6.5	9	V
Reverse Current at $V_R = 5 \text{ V}$ Pin 1 or Pin 2 to Pin 3 and Between Pins 1 and 2	I_R	-	50	nA
Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$; Pin 1 to Pin 2 at $I_{PP} = 5 \text{ A}$, $t_p = 8/20 \mu\text{s}$; Pin 1 or Pin 2 to Pin 3	V_C	- -	15 25	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$; Pin 1 to Pin 2 at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$; Pin 1 or Pin 2 to Pin 3	C_j	- -	0.6 0.8	pF



Electrical characteristic curve

Fig 1. Pulse Waveform

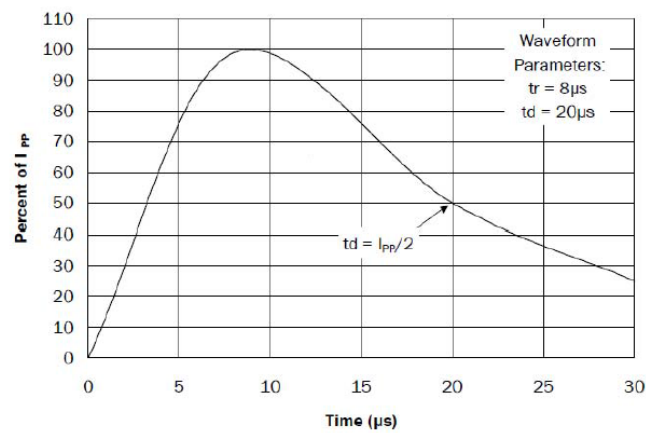


Fig 2. Power Derating Curve

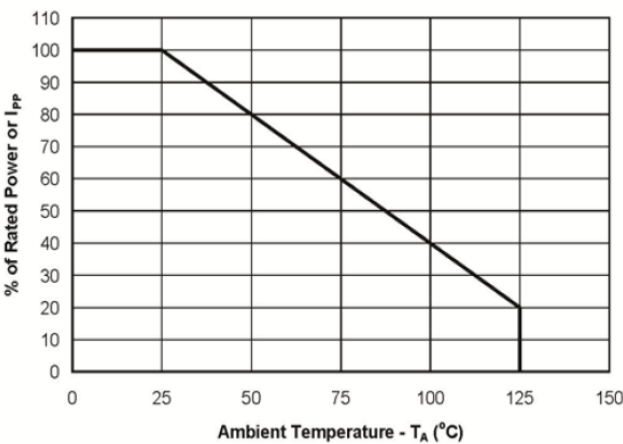


Fig 3. Junction Capacitance vs. Reverse Voltage

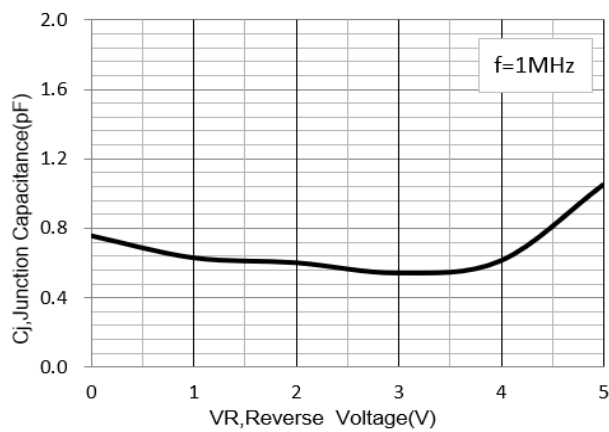
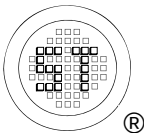
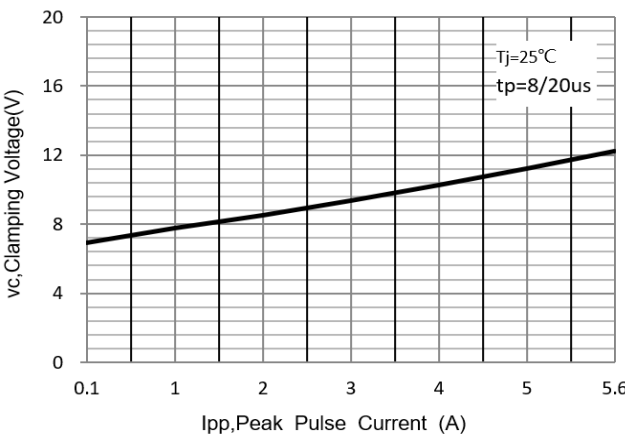
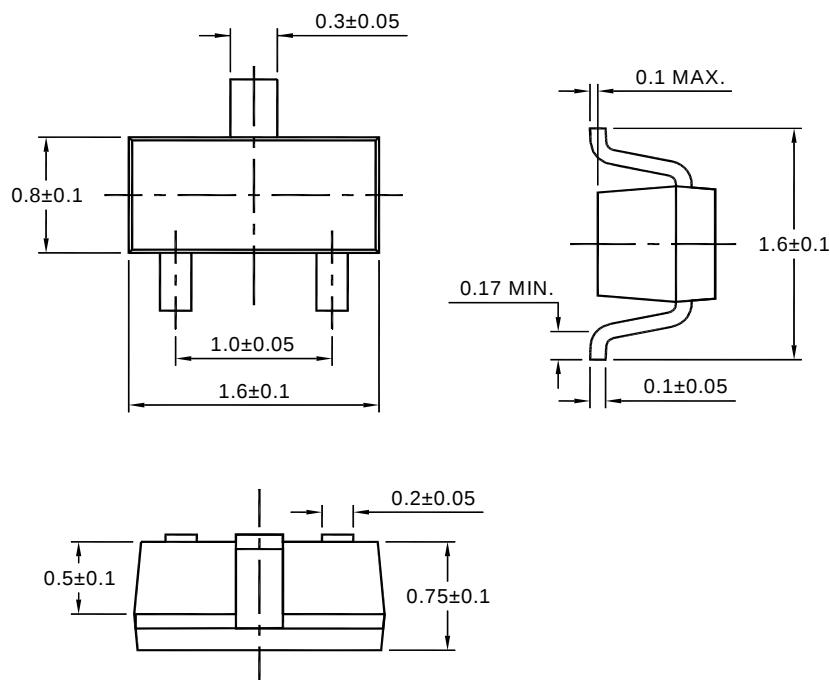


Fig 4. Clamping Voltage vs. Peak Pulse Current

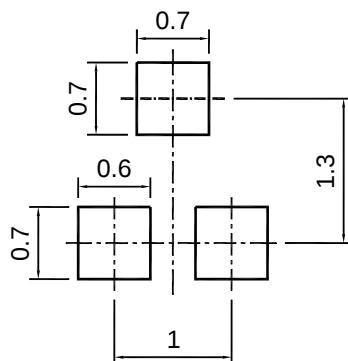


Package Outline (Dimensions in mm)

SOT-523



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-523	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

Marking information

" P5 " = Part No.
" YM " = Date Code Marking
" Y " = Year
" M " = Month
Font type: Arial

