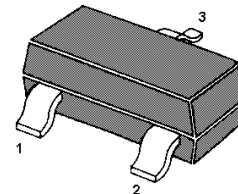
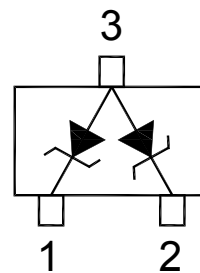


# E5V0VUKA2C-HAF

## ESD Protection Diode

### Features

- Low capacitance
- Halogen and Antimony Free(HAF),  
RoHS compliant



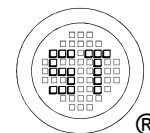
1. Cathode 2. Cathode 3. Anode  
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $t_p = 8/20 \mu\text{s}$ )	$P_{PK}$	75	W
Peak Pulse Current ( $t_p = 8/20 \mu\text{s}$ )	$I_{PP}$	5	A
ESD (IEC61000-4-2) Air Contact	$V_{ESD}$	$\pm 15$ $\pm 8$	KV
Operating Junction Temperature Range	$T_j$	- 55 to + 125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^{\circ}\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	$V_{RWM}$	-	5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	$V_{(BR)R}$	6.5	9	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	$I_R$	-	200	nA
Clamping Voltage at $I_{PP} = 5 \text{ A}$ , $t_p = 8/20 \mu\text{s}$	$V_C$	-	15	V
Junction Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$	$C_j$	-	0.8	pF



Electrical Characteristic Curves

Fig 1. Pulse Waveform

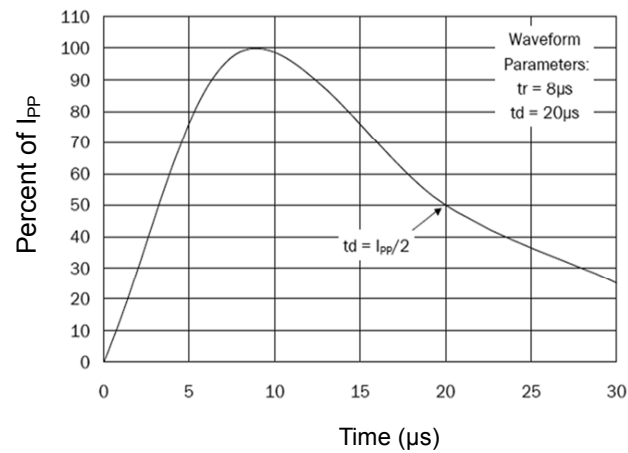


Fig 2. Power Derating Curve

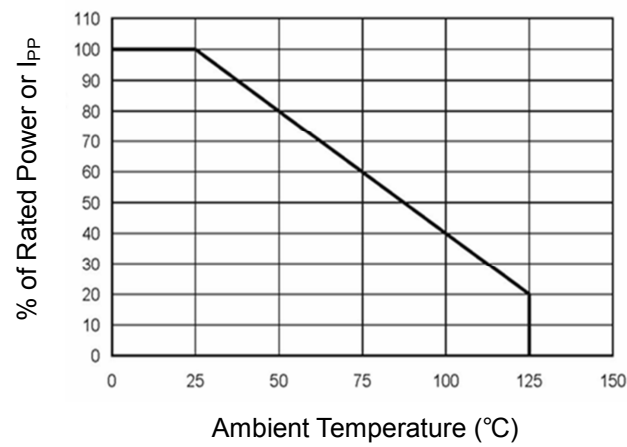


Fig 3. Clamping Voltage Curve

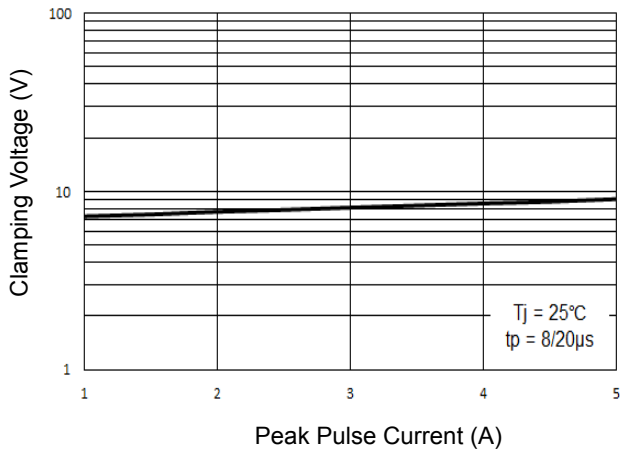


Fig 4. Junction Capacitance

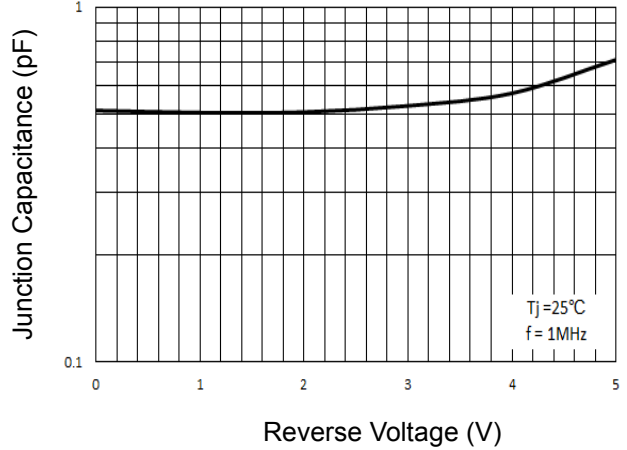
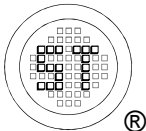
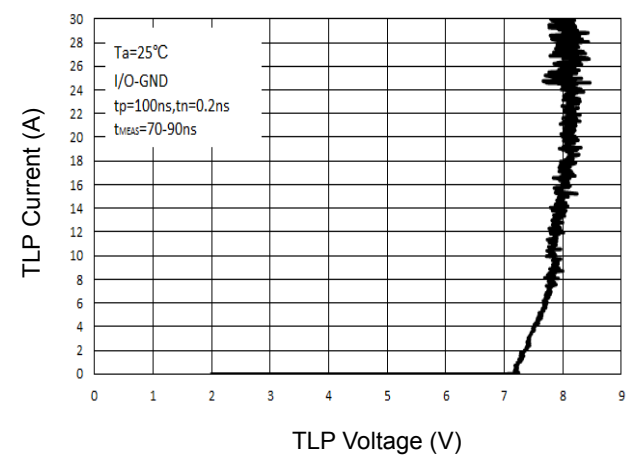


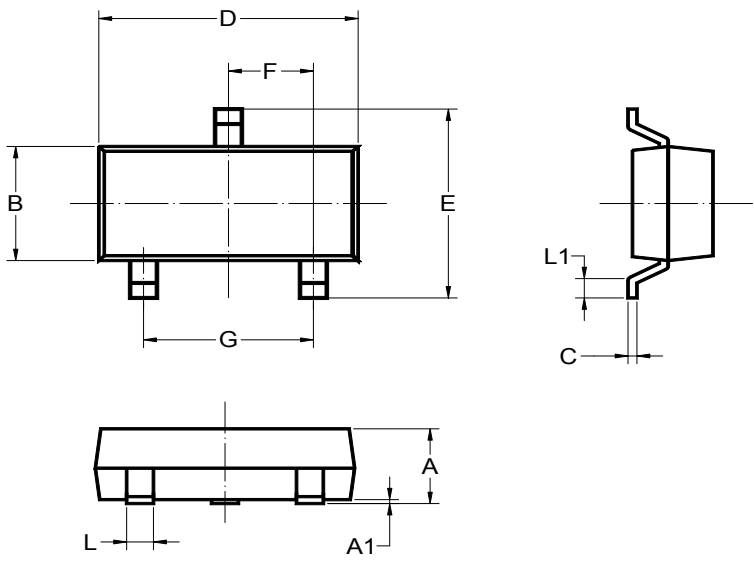
Fig. 5 TLP Curve



# E5V0VUKA2C-HAF

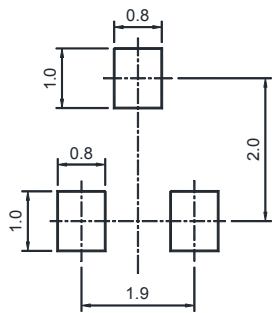
## Package Outline (Dimensions in mm)

SOT-23



Unit	A	A1	B	C	D	E	F	G	L	L1
mm	1.20 0.89	0.100 0.013	1.40 1.20	0.19 0.08	3.04 2.80	2.6 2.2	1.02 0.89	2.04 1.78	0.51 0.37	0.2 MIN

## Recommended Soldering Footprint

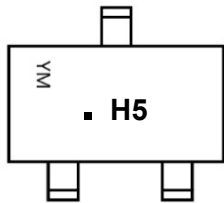


## Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-23	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

## Marking information

" H5 " = Part No.  
" • " = HAF (Halogen and Antimony Free)  
" YM " = Date Code Marking  
" Y " = Year  
" M " = Month  
Font type: Arial



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