

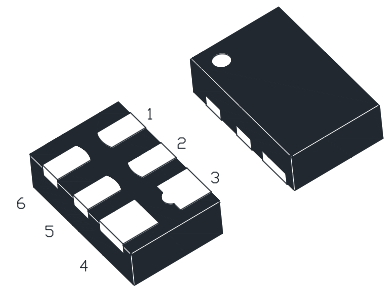
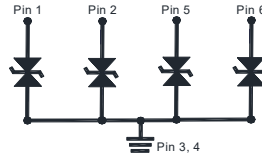
E5V0UBPN4X

Transient Voltage Suppressor

for ESD protection

Features

- Low clamping Voltage
- Low operating voltage
- Bi-direction high reliability



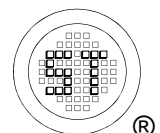
1. I/O1 2. I/O2 3. GND
4. GND 5. I/O3 6. I/O4
Marking Code : C5
DFN1610-6H Plastic package

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

Parameter	Symbol	Value	Unit
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 25 ± 23	KV
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	4	A
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{pk}	100	W
Operating Temperature Range	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	$V_{(\text{BR})R}$	6	10	V
Reverse Current at $V_{\text{RWM}} = 5 \text{ V}$	I_R	-	0.1	μA
Clamping Voltage at $I_{\text{PP}} = 4 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	-	25	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	0.5	pF



Electrical Characteristics Curves

Fig 1. Pulse Waveform

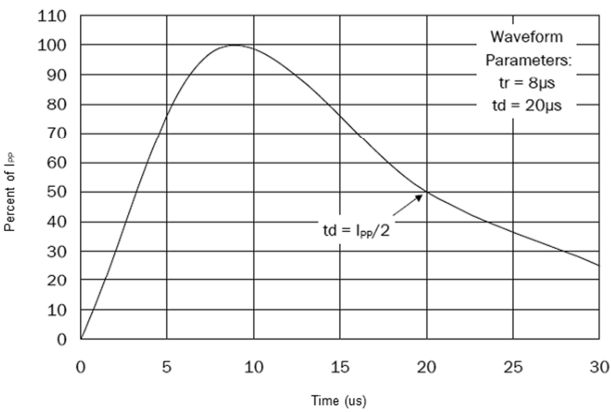


Fig 2. Power Derating Curve

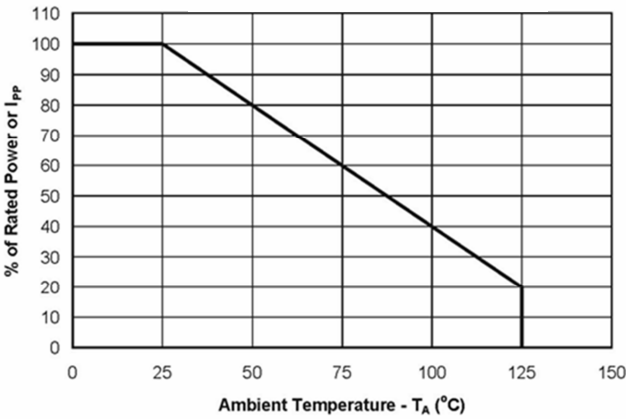


Fig 3. Typical Junction Capacitance

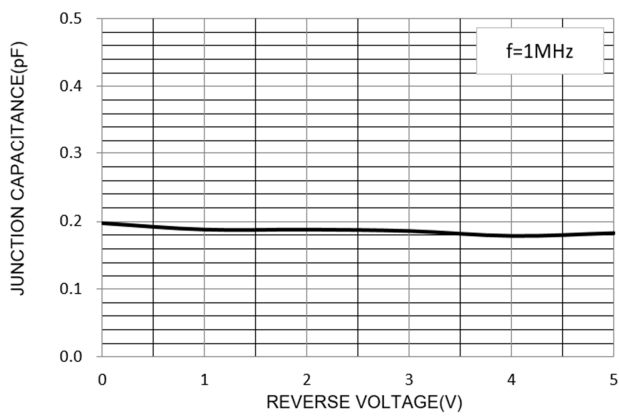
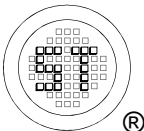
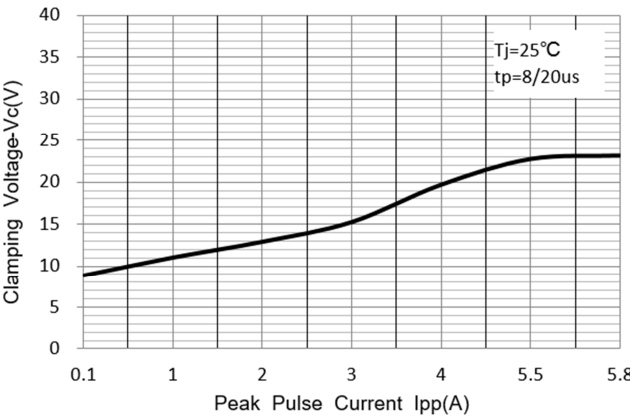


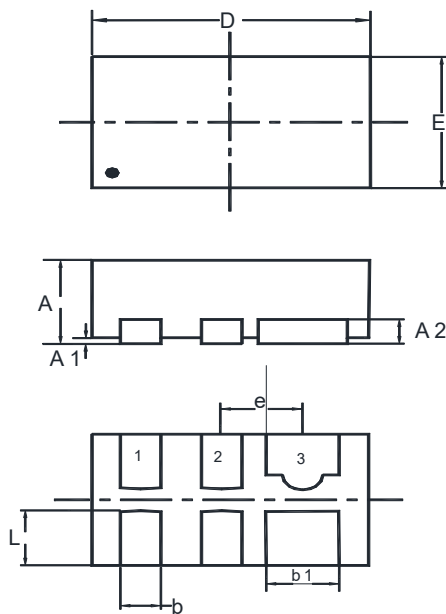
Fig 4. Clamping Voltage



E5V0UBPN4X

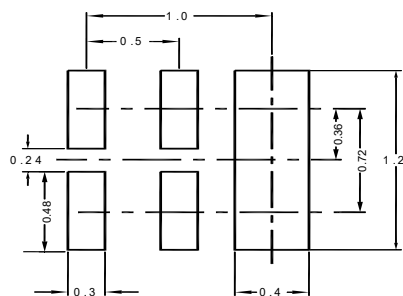
Package Outline Dimensions (Units: mm)

DFN1610-6H



UNIT	A	A1	A2	b	b1	D	E	e	L
mm	0.46 0.51	0 0.05	0.152	0.15 0.25	0.4	1.55 1.65	0.95 1.05	0.50	0.33 0.43

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN1610-6H	8	4 ± 0.1	0.157 ± 0.004	178	7	10,000

Marking information

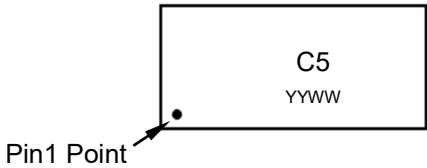
" C5 " = Part No.

" YYWW " = Date Code Marking

" YY " = Year

" WW " = Week

Font type: Arial



Pin1 Point

