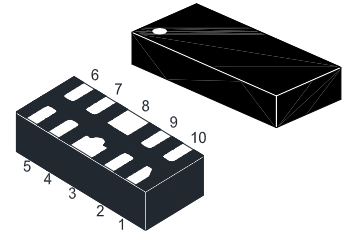
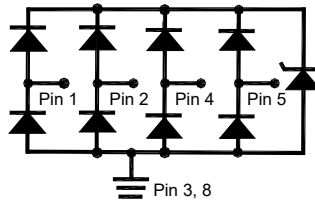


E3V3VUPU4DM-HAF

4 Channel ESD Protection Diode Array

Features

- Low capacitance
- Low leakage current
- Low clamping voltage
- Halogen and Antimony Free(HAF),
RoHS compliant



1. I/O1 2. I/O2 3. GND 4. I/O3 5. I/O4
6. NC 7. NC 8. GND 9. NC 10. NC
DFN2510-10 Plastic package

Applications

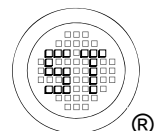
- Display port interface
- LVDS interface

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Peak Pulse Power (tp = 8/20 μs)	P _{PK}	45	W
Peak Pulse Current (tp = 8/20 μs)	I _{PP}	7	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	± 16 ± 12	KV
Operation Temperature Range	T _j	- 55 to + 125	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage at Pin 1, 2, 4, 5 to GND	V _{RWM}	-	-	3.3	V
Reverse Breakdown Voltage at I _R = 1 mA, Pin 1, 2, 4, 5 to GND	V _{(BR)R}	5.5	-	-	V
Reverse Current at V _{RWM} = 3.3 V, Pin 1, 2, 4, 5 to GND	I _R	-	-	200	nA
Clamping Voltage at I _{PP} = 7 A, tp = 8/20 μs, Pin 1, 2, 4, 5 to GND	V _C	-	-	7.5	V
Clamping Voltage at I _{TLP} = 4 A, tp = 100 ns, Pin 1, 2, 4, 5 to GND at I _{TLP} = 16 A, tp = 100 ns, Pin 1, 2, 4, 5 to GND	V _{CL}	- -	2.8 6.5	- -	V
Dynamic Resistance at I _{TLP} = 4 A to 16 A	R _{DNV}	-	0.31	-	Ω
Junction Capacitance at V _R = 1.65 V, f = 1 MHz, Pin 1, 2, 4, 5 to GND	C _j	-	0.5	0.8	pF



E3V3VUPU4DM-HAF

Electrical characteristic curves

Fig 1. Pulse Waveform

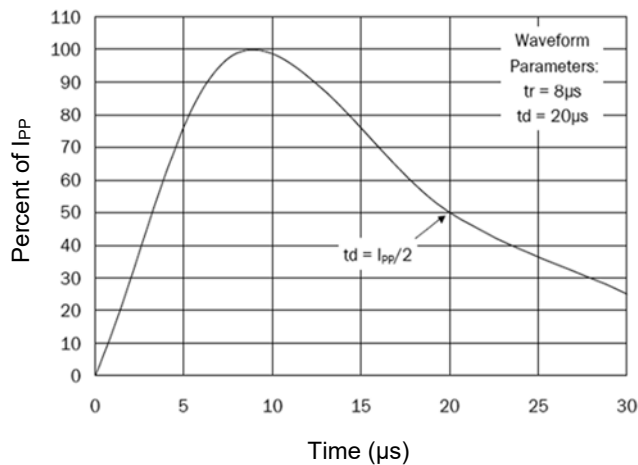


Fig 2. Power Derating Curve

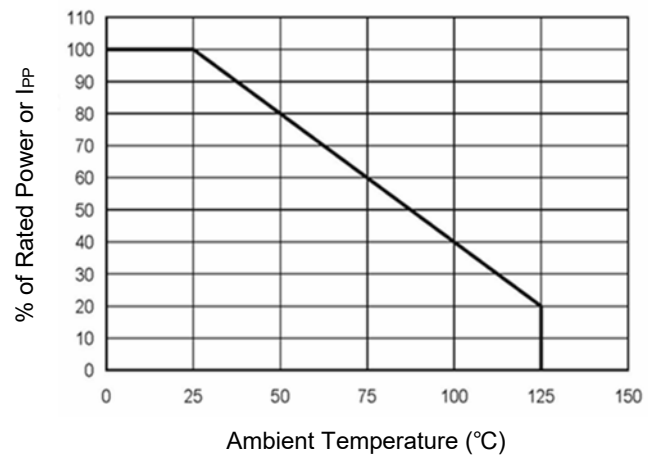


Fig 3. Clamping Voltage Curve

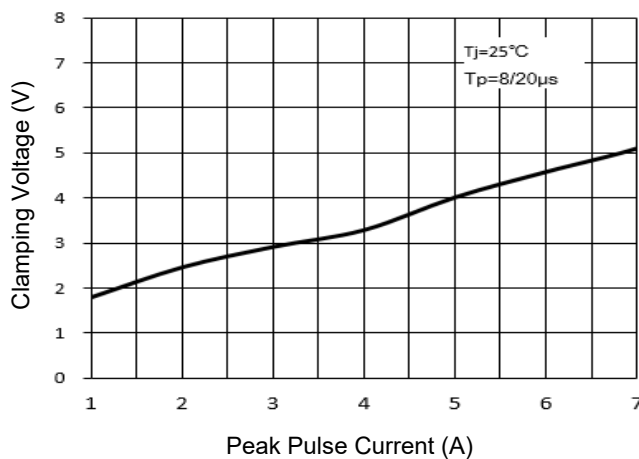


Fig 4. Junction Capacitance

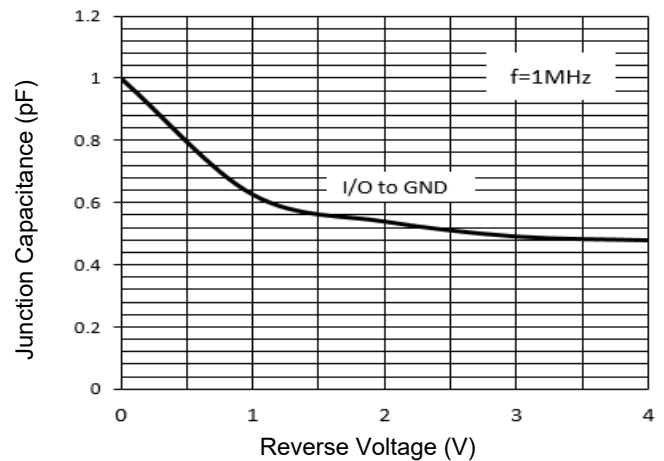


Fig 5. TLP Curve

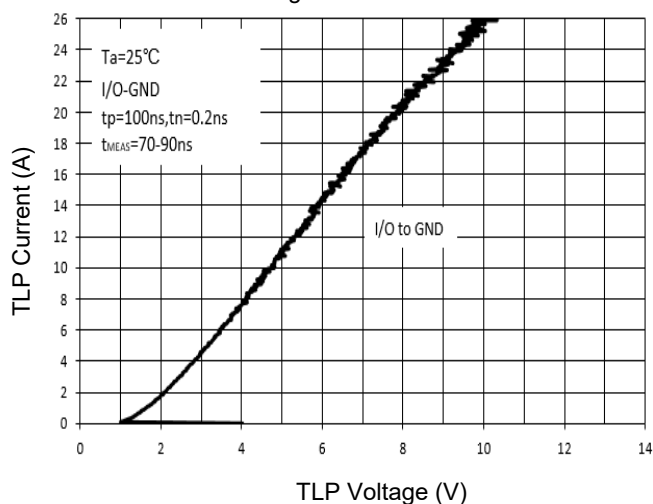
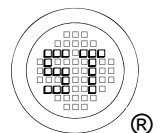
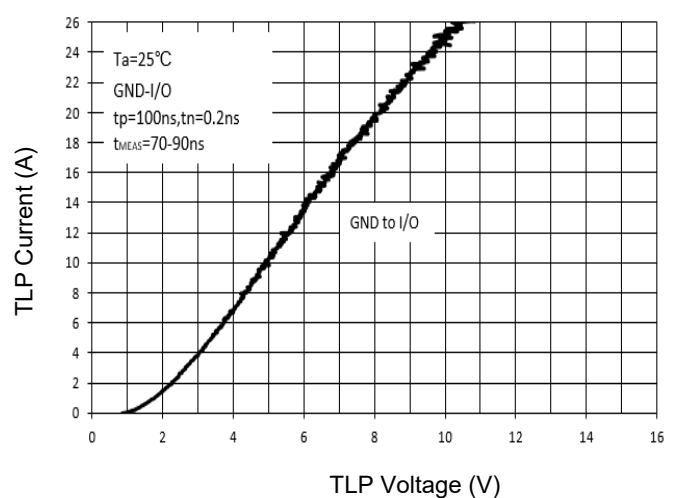


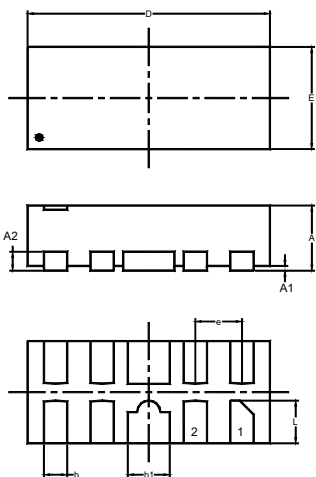
Fig 6. TLP Curve



E3V3VUPU4DM-HAF

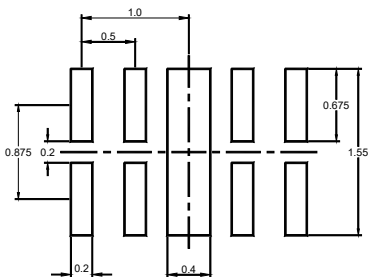
Package Outline Dimensions (Units: mm)

DFN2510-10



UNIT	A	A1	A2	b	b1	D	E	e	L
mm	0.46 0.51	0 0.05	0.13	0.15 0.25	0.35 0.45	2.40 2.60	0.90 1.10	0.50	0.30 0.425

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN2510-10	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

Marking information

" G3 " = Part No.
" • " = HAF (Halogen and Antimony Free)
" YYWW " = Date Code Marking
" YY " = Year
" WW " = Week
Font type: Arial

