

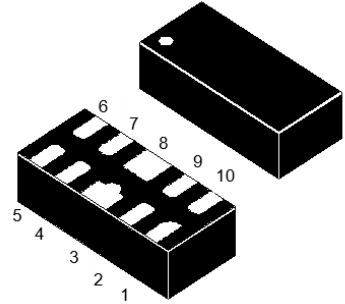
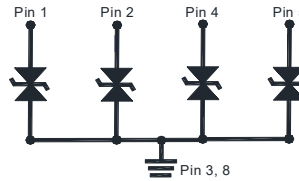
E5V0UBPU4T

Transient Voltage Suppressor

for ESD protection

Features

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



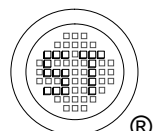
1. I/O 2. I/O 3. GND 4. I/O 5. I/O
6. NC 7. NC 8. GND 9. NC 10. NC
Marking Code: "R5"
DFN2510-10 Plastic package

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

Parameter	Symbol	Value	Unit
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
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 25 ± 23	KV
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 $I_R = 1 \text{ mA}$	$V_{(BR)R}$	6	10	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	I_R	-	0.1	μA
Clamping Voltage at $I_{PP} = 4 \text{ A}$, $t_p = 8/20 \mu\text{s}$	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

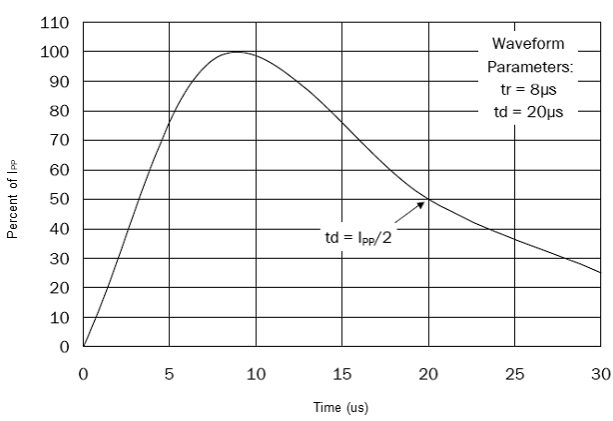


Fig 2. Power Derating Curve

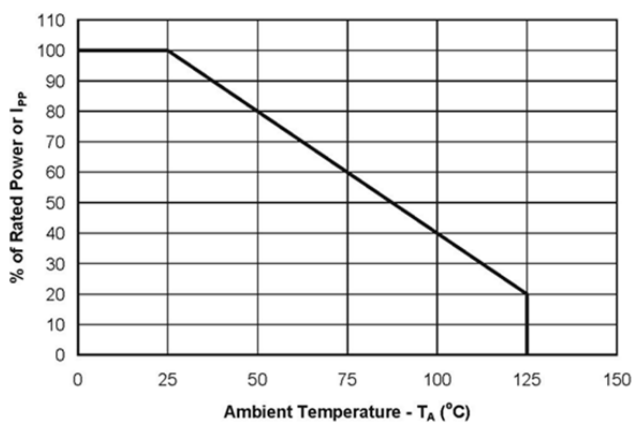


Fig 3. Typical Junction Capacitance

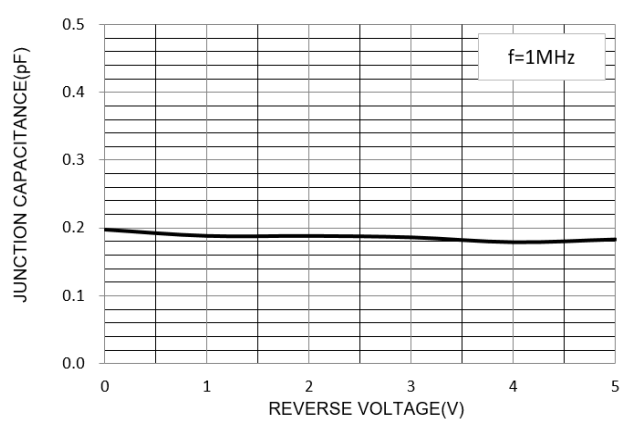
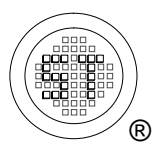
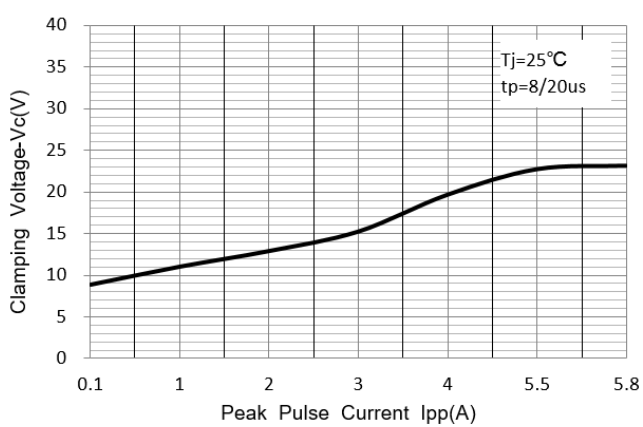


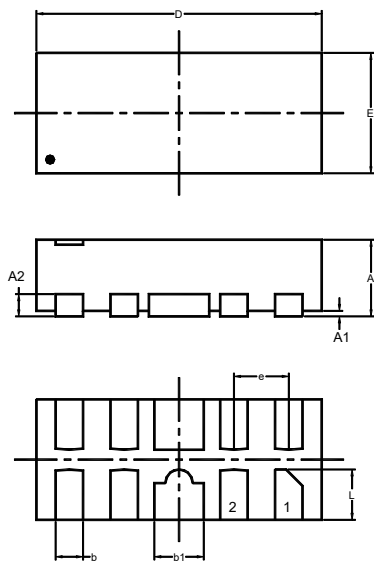
Fig 4. Clamping Voltage



E5V0UBPU4T

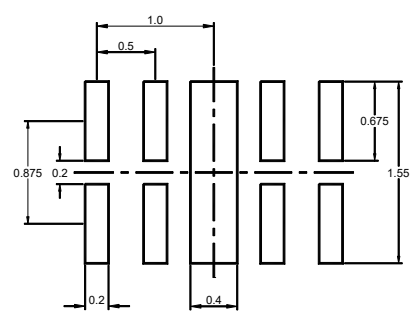
Package Outline Dimensions (Units: mm)

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

" R5 " = Part No.
" YYWW " = Date Code Marking
" YY " = Year
" WW " = Week
Font type: Arial

