E5V0UBPC1A-A

ESD Protection Diode

PINNING

PIN	DESCRIPTION
1	Anode
2	Anode



Transparent top view
Marking Code : 5L
Simplified outline DFN1006-2H and symbol

Features

- Ultra low capacitance
- Ultra small SMD package
- Halogen and Antimony Free(HAF), RoHS compliant
- AEC-Q101 Qualified

Absolute Maximum Ratings (T_a = 25℃)

Parameter		Symbol	Value	Unit
Peak Power Dissipation (tp = 8/20 μs)		P_{PK}	100	W
Peak Pulse Current (tp = 8/20 μs)		I_{PP}	4	A
ESD contact discharge (IEC61000-4-2)	Air Contact	V_{ESD}	± 25 ± 23	KV
Junction Temperature		T_j	125	℃
Storage Temperature Range		T_{stg}	- 65 to + 150	℃

Characteristics at T_a = 25℃

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

Electrical characteristic curves

Fig 1. Pulse Waveform

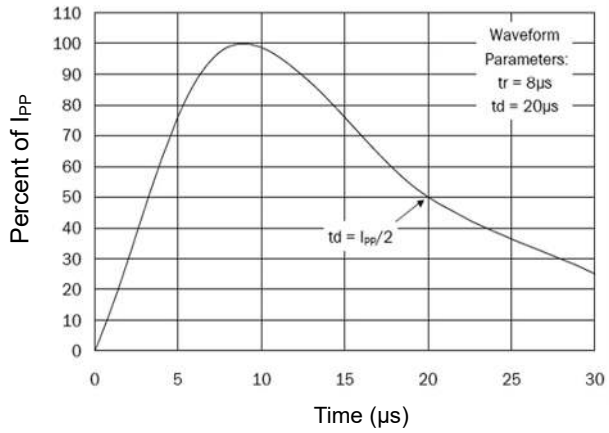


Fig 2. Power Derating Curve

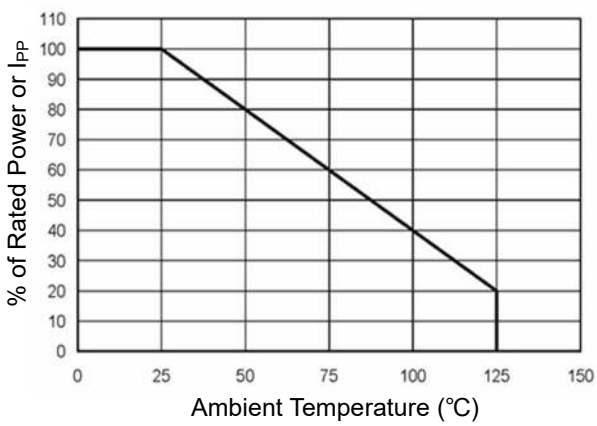


Fig 3. Clamping Voltage Curve

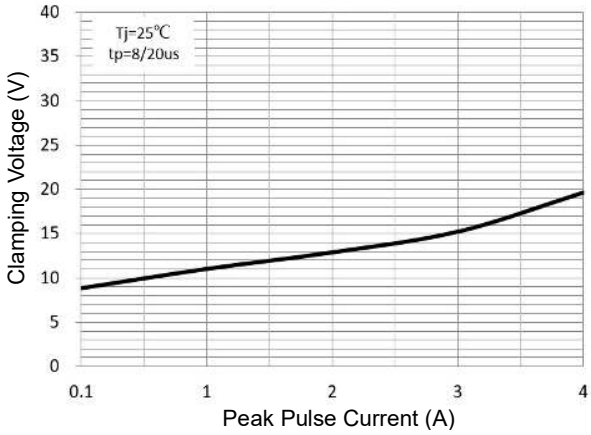


Fig 4. Junction Capacitance

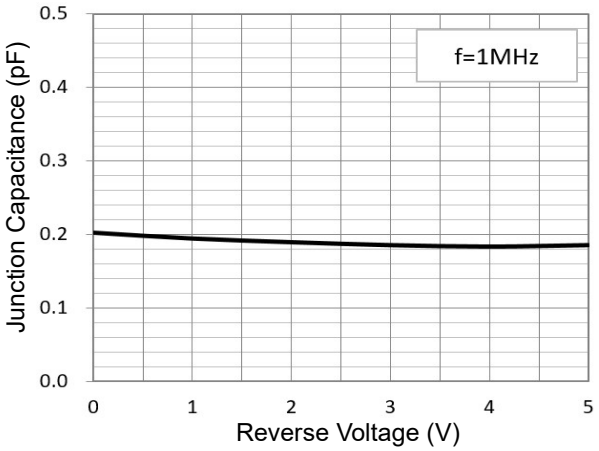
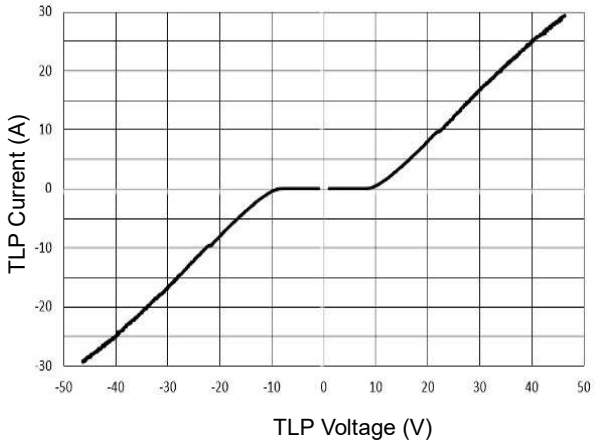
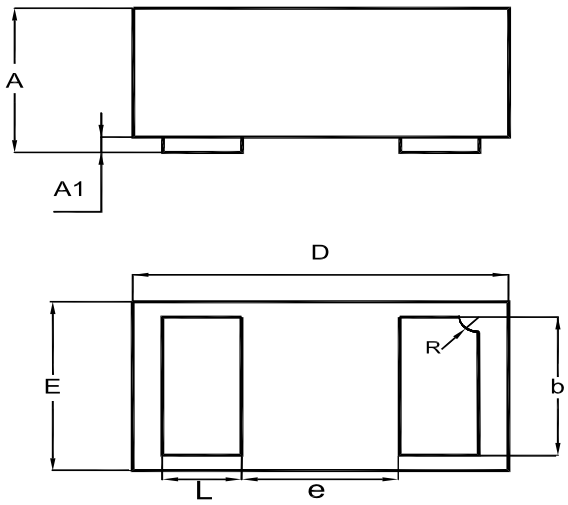


Fig. 5 TLP Curve



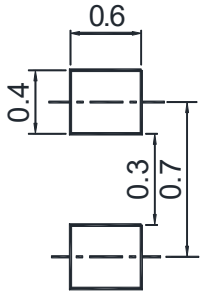
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **DFN1006-2H**



UNIT	A	A1	b	D	E	e	L	R
mm	0.51 0.46	0.05 0	0.55 0.45	1.05 0.95	0.65 0.55	0.4	0.3 0.2	0.15 0.05

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN1006-2H	8	2 ± 0.1	0.079 ± 0.004	178	7	10,000

Marking information

" • " = HAF (Halogen and Antimony Free)
"5L" = Part No.
Font type: Arial

