



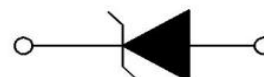
1. Features

- 2-pin lead-less package
- Junction capacitance (Max value: 700pF)
- Peak Pulse current (8/20μs) Max:130A
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- Low clamping voltage
- Low leakage current
- Working voltages:10V
- RoHS Compliant

2. Mechanical Data

- Case:Molded Plastic,DFN1610-2L.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking:H10T
- Marking:marked on body.

DFN1610-2L



Uni-directional

3. Maximum Ratings

Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	1850	W
Peak Pulse Current (8/20μs)	I _{PP}	72	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	KV
ESD per IEC 61000-4-2 (Contact)		±30	
Junction Temperature	T _j	-55~+125	°C
Storage Temperature	T _{stg}	-55~+150	°C

4. Electrical Characteristics (T_A=25°C unless otherwise noted)

Characteristics	Symbol	Condition	Min	TYP	Max	Unit
Reverse Working Voltage	V _{RWM}		-	-	10	V
Reverse Breakdown Voltage	V _{BR}	I _R = 1mA	10.5	-	13.5	V
Reverse Leakage Current	I _R	V _R =5V	-	-	0.1	uA
Clamping voltage	V _C	I _{PP} = 45A, T _p =8/20us	-	-	18	V
Clamping voltage	V _C	I _{PP} = 72A, T _p =8/20us	-	-	22	V
Junction capacitance	C _J	V _R =0V, f=1MHz	-	-	700	pF



5. Rating And Characteristic Curves

FIG1: Power rating derating curve

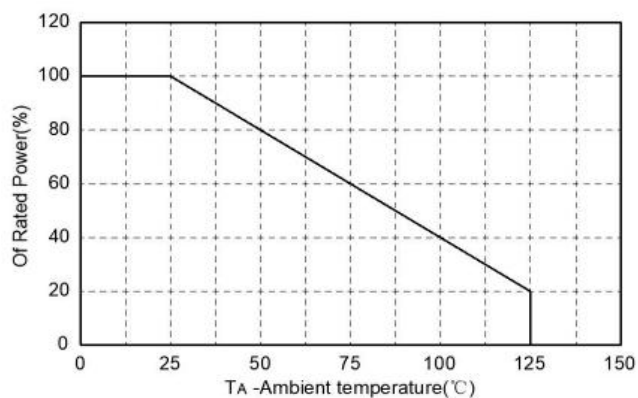


FIG2: pulse Waveform

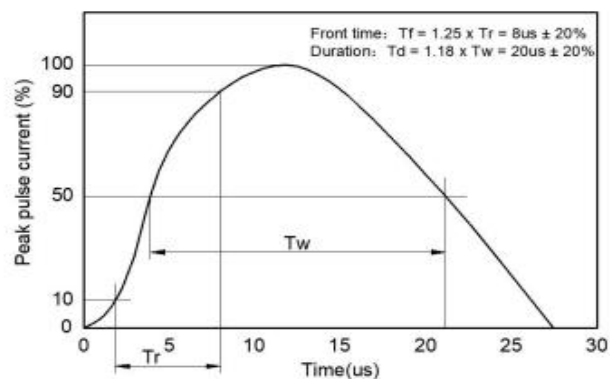


FIG3: Capacitance between teminals charateristics

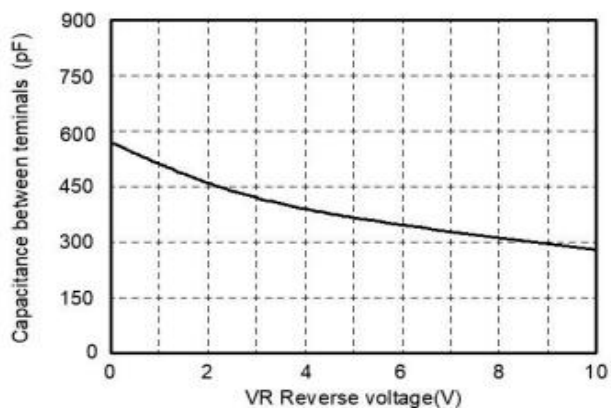
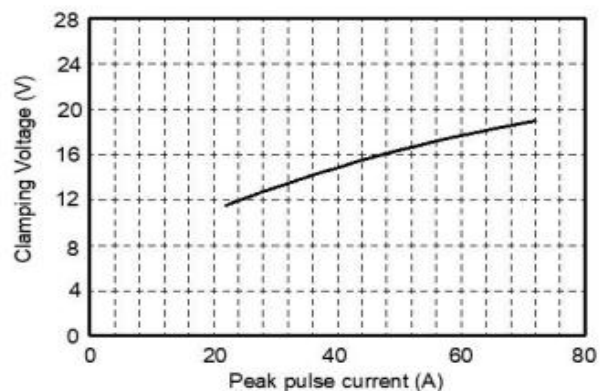
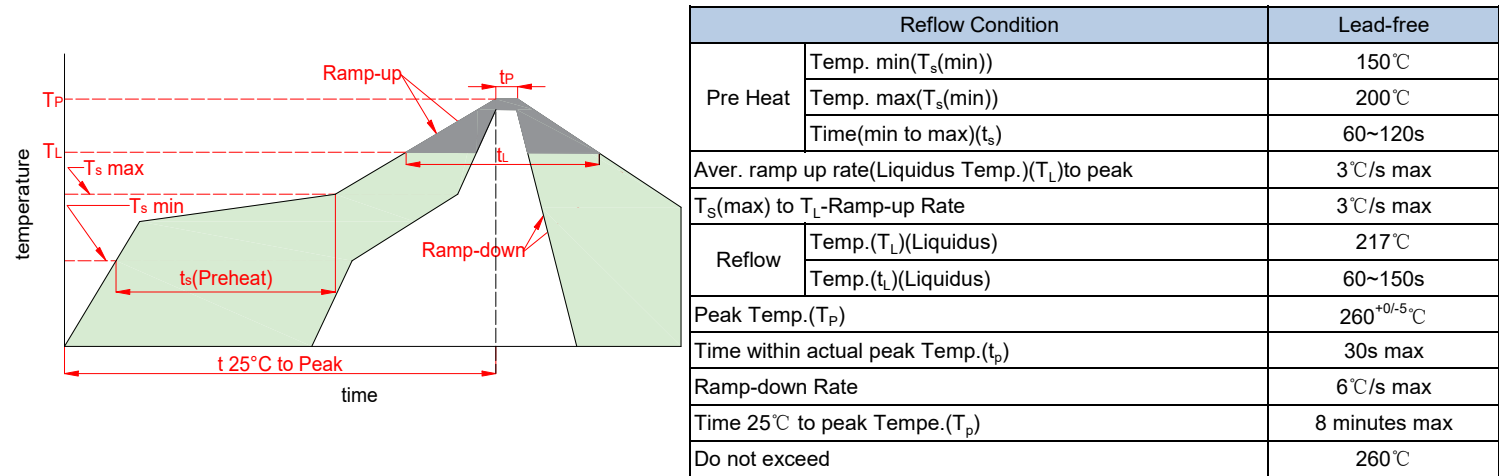


FIG4: Clamping Voltage vs. Peak Pulse Current

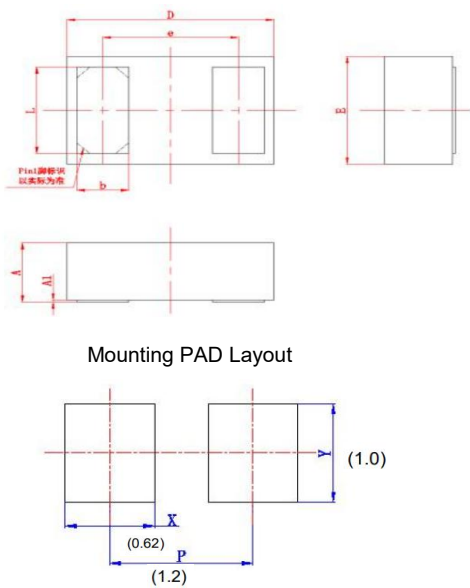




6. Soldering Parameters



7. Dimensions



Symbol	Inches		Millimeters	
	Min	Max	Min	Max
A	0.020	0.024	0.50	0.60
A1	0.000	0.002	0.00	0.05
D	0.022	0.067	0.55	1.70
E	0.035	0.043	0.90	1.10
e	0.041		1.05	
b	0.014	0.018	0.35	0.45
L	0.030	0.037	0.75	0.95

8. Part Marking System

Cathode Band



9. Package Information

Package	Part Number	Marking Code	Quantity(pcs)
DFN1610-2L	ESDSHLC5V001P6	H10T	3000



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