



Product data sheet

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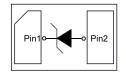


LTVS16H24T5G-MS HF

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DFN1610-2L



Circuit diagram

Features

- Ultra small package: 1.6x1.0x0.5mm
- Protects one data or power line
- Low leakage current
- 2-pin leadless package
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 Air discharge: ±30kV
 Contact discharge: ±30kV
- RoHS Compliant and Halogen Free

Applications

- Mobile Phones
- Battery Protection
- Power Line Protection
- Vbat pin for Mobile Devices
- Hand Held Portable Applications

Mechanical Characteristics

- Case Material: "Green" Molding Compound.
- Moisture Sensitivity: Level 1 per J-STD-020

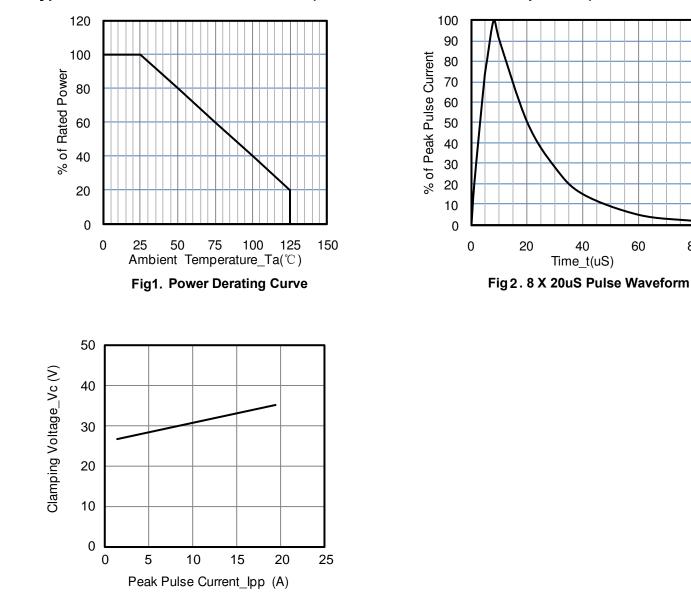
Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ppk	700	W	
Peak Pulse Current (8/20µs)	Ірр	17	А	
ESD per IEC 61000-4-2 (Air))/===	±30	1.2.7	
ESD per IEC 61000-4-2 (Contact)	VESD	±30	kV	
Operating Temperature Range	TJ	−40 to +150	°C	
Storage Temperature Range	Tstg	−55 to +150	°C	

Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			24	V	
Breakdown Voltage	Vbr	25.5		28.5	V	IT = 1mA
Reverse Leakage Current	I _R			0.1	μA	VR= 24V
Clamping Voltage	Vc			32	V	IPP = 10A (8 x 20µs pulse)
Clamping Voltage	Vc			35	V	IPP = 17A (8 x 20µs pulse)
Junction Capacitance	CJ		100		pF	VR = 0V, f = 1MHz





Typical Performance Characteristics (T_A=25°C unless otherwise Specified)

Fig3 .Clamping Voltage vs. Peak Pulse Current

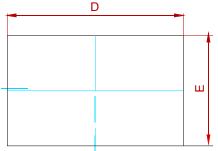
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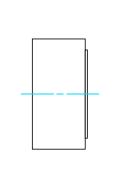


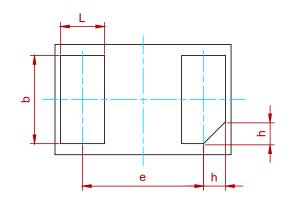
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PACKAGE MECHANICAL DATA







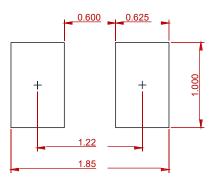
TOP VIEW



BOTTOM VIEW

Sumbol	Dimensions in Millimeters				
Symbol	Min.	Тур.	Max.		
A	0.45	0.50	0.55		
A1	0.00	0.02	0.05		
с	0.15 Ref.				
b	0.75	0.80	0.85		
L	0.35	0.40	0.45		
D	1.55	1.60	1.65		
E	0.95	1.00	1.05		
е	1.10 BSC				
h	0.20 Ref.				

Recommend PCB Layout (Unit: mm)



Notes:

This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.

REEL SPECIFICATION

P/N	PKG	QTY
LTVS16H24T5G-MS	DFN1610-2L	3000



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