





# ESDLC15VLZB

## Absolute Maximum Ratings (T<sub>a</sub>=25°C unless otherwise specified)

PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power (t <sub>p</sub> = 8/20 s)	P <sub>pk</sub>	140	W
Peak pulse current (t <sub>p</sub> = 8/20 s)	I <sub>PP</sub>	6	A
ESD according to IEC61000-4-2 air discharge	V <sub>ESD</sub>	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	KV
Junction temperature	T <sub>J</sub>	125	°C
Operating temperature	T <sub>OP</sub>	-40~85	°C
Storage temperature	T <sub>STG</sub>	-55~150	°C

## Electrical Characteristics (T<sub>a</sub>=25 Unless otherwise specified)

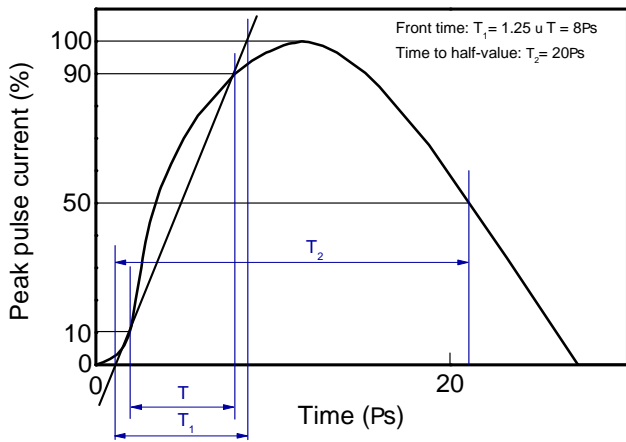
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse maximum working voltage	V <sub>RWM</sub>	V				±15
Reverse leakage current	I <sub>R</sub>	nA	V <sub>RWM</sub> = 15V			100
Reverse breakdown voltage	V <sub>BR</sub>	V	I <sub>BR</sub> = 1mA	15.5		20
Reverse holding voltage	V <sub>HOLD</sub>	V	I <sub>HOLD</sub> = 50mA	15.5		20
Clamping voltage <sup>1)</sup>	V <sub>CL</sub>	V	I <sub>PP</sub> = 16A, t <sub>p</sub> = 100ns		21.0	
Dynamic resistance <sup>1)</sup>	R <sub>DYN</sub>				0.35	
Clamping voltage <sup>2)</sup>	V <sub>CL</sub>	V	V <sub>ESD</sub> = 8kV		21.0	
Clamping voltage <sup>3)</sup>	V <sub>CL</sub>	V	I <sub>PP</sub> = 1A, t <sub>p</sub> = 8/20 s		16	18
		V	I <sub>PP</sub> = 6A, t			



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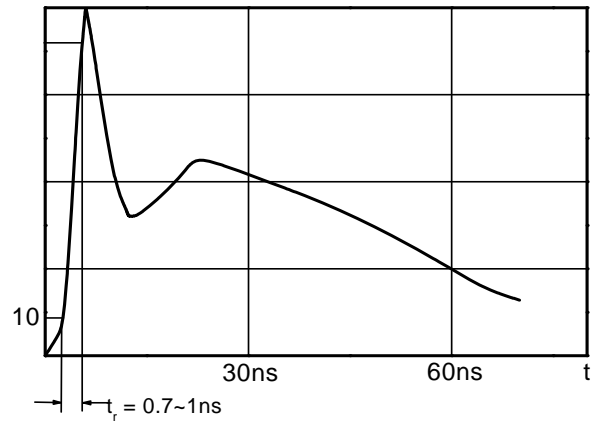
## Typical Performance Characteristics (Ta=25 unless otherwise Specified)

8/20 $\mu$ s waveform per IEC61000 4 5



Clamping voltage vs. Peak pulse current

Contact discharge current waveform per IEC61000 4 2



Capacitance vs. Reverse voltage

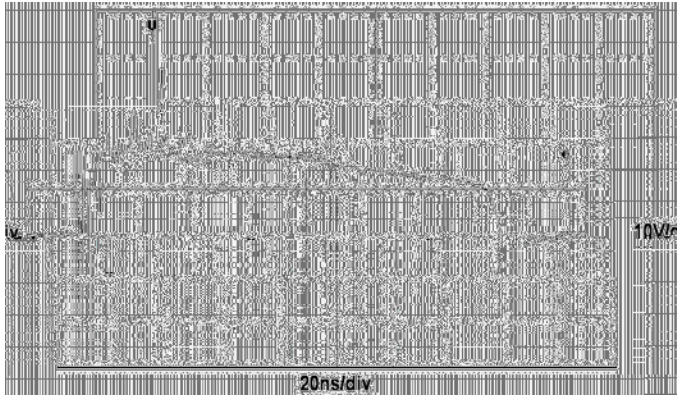
Non repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature



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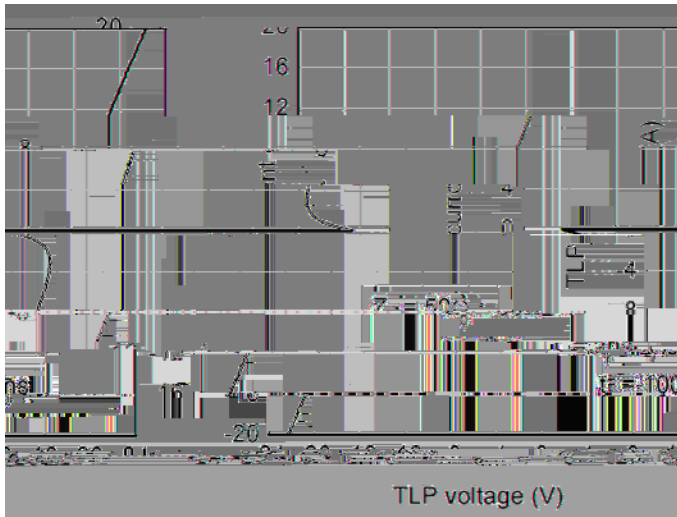
ESD clamping  
(+8kV contact discharge per IEC61000 4 2)



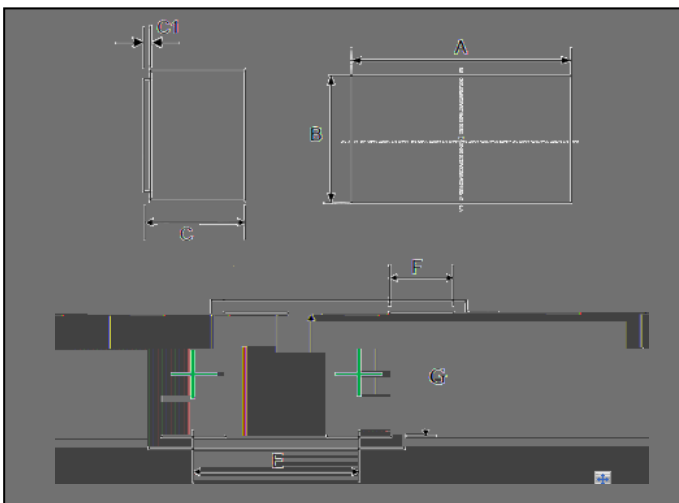
ESD clamping  
( 8kV contact discharge per IEC61000 4 2)



TLP Measurement



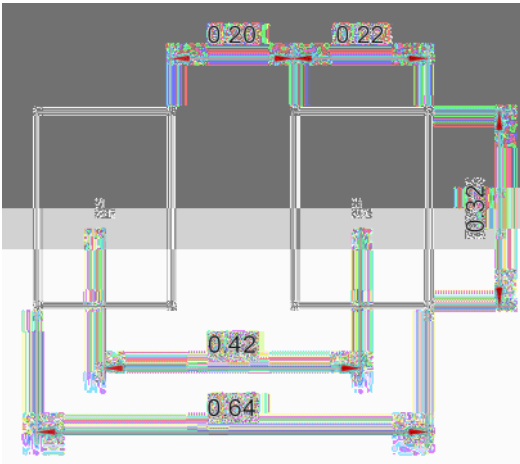
## Outline Dimensions



Symbol	min (mm)	Max. (mm)
A	0.55	0.67
B	0.25	0.37
C	0.23	0.35
C1		0.05
E		0.4
F	0.100	0.205
G	0.200	0.295



Recommend land pattern (Unit:mm)





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