



ESDLC15VLZB

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

PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	140	W
Peak pulse current ($t_p = 8/20\mu s$)	I_{PP}	6	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	KV
Junction temperature	T_J	125	°C
Operating temperature	T_{OP}	-40~85	°C
Storage temperature	T_{STG}	-55~150	°C

Electrical Characteristics (Ta=25 Unless otherwise specified)

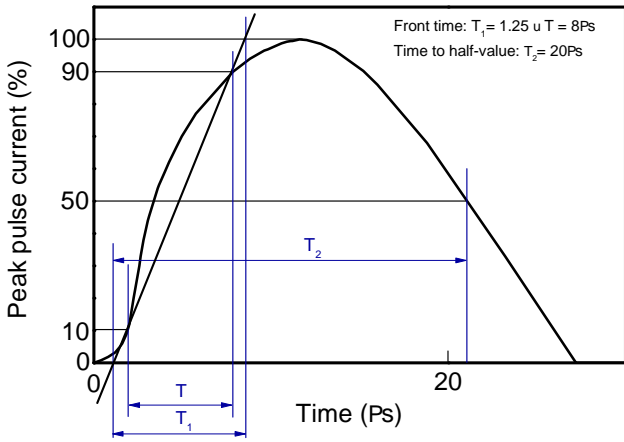
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse maximum working voltage	V_{RWM}	V				± 15
Reverse leakage current	I_R	nA	$V_{RWM} = 15V$			100
Reverse breakdown voltage	V_{BR}	V	$I_{BR} = 1mA$	15.5		20
Reverse holding voltage	V_{HOLD}	V	$I_{HOLD} = 50mA$	15.5		20
Clamping voltage ¹⁾	V_{CL}	V	$I_{PP} = 16A, t_p = 100ns$		21.0	
Dynamic resistance ¹⁾	R_{DYN}				0.35	
Clamping voltage ²⁾	V_{CL}	V	$V_{ESD} = 8kV$		21.0	
Clamping voltage ³⁾	V_{CL}	V	$I_{PP} = 1A, t_p = 8/20\mu s$		16	18
		V	$I_{PP} = 6A, t$			



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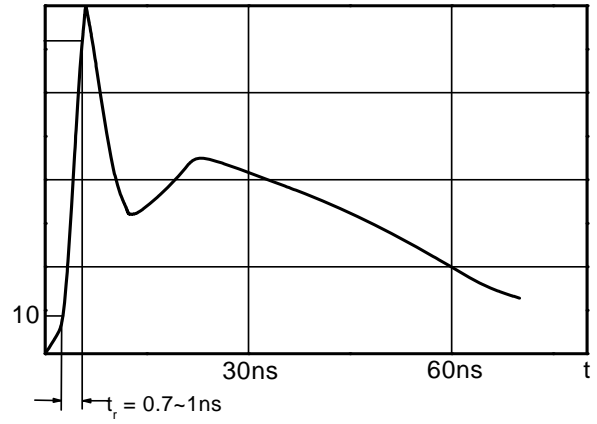
Typical Performance Characteristics (Ta=25 unless otherwise Specified)

8/20 μ s waveform per IEC61000 4 5



Clamping voltage vs. Peak pulse current

Contact discharge current waveform per IEC61000 4 2



Capacitance vs. Reverse voltage

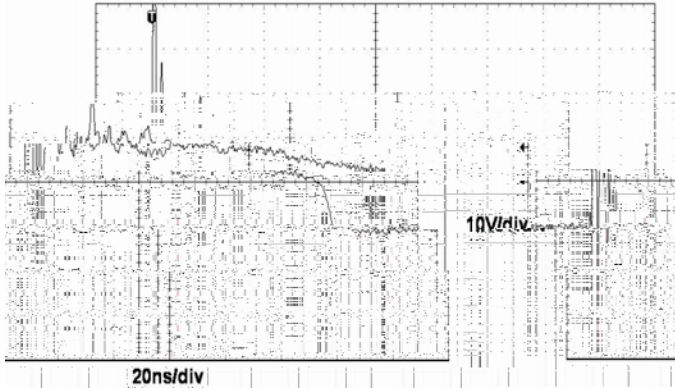
Non repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature



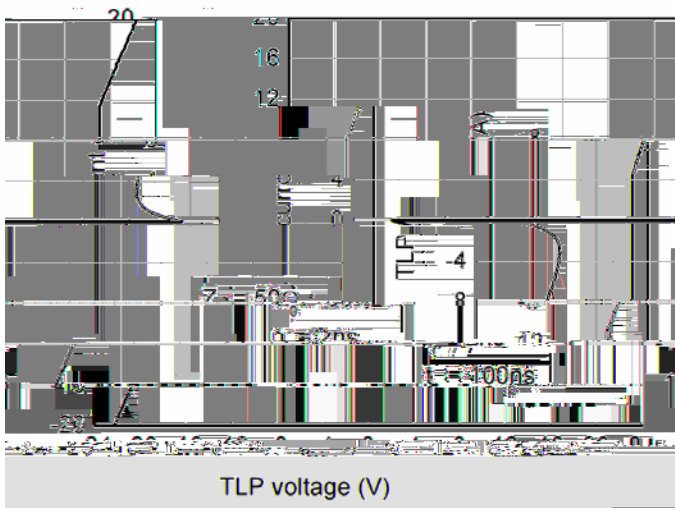
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ESD clamping
(+8kV contact discharge per IEC61000 4 2)

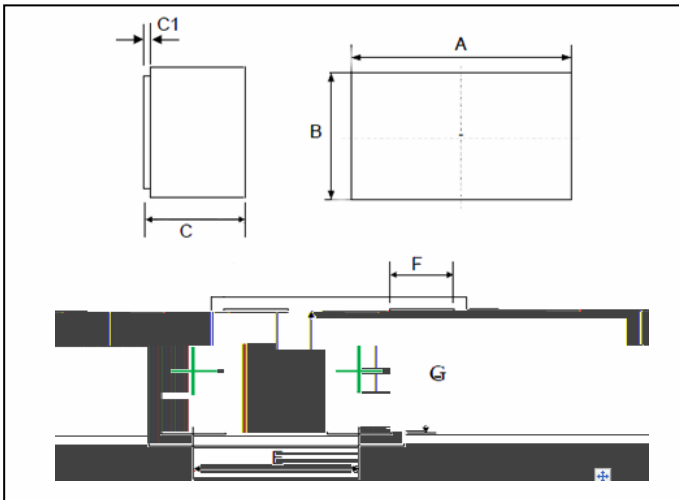


ESD clamping
(8kV contact discharge per IEC61000 4 2)

TLP Measurement



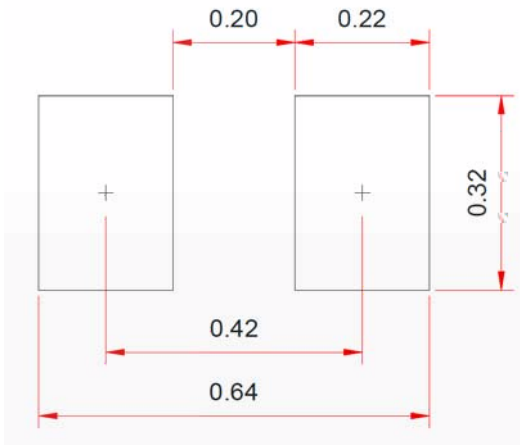
Outline Dimensions



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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