





# ESDLC12VLZB

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

PARAMETER	SYMBOL		UNIT
Peak pulse power ( $t_p = 8/20\mu s$ )	$P_{pk}$	120	W
Peak pulse current ( $t_p = 8/20\mu s$ )	$I_{PP}$	6	A
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	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				$\pm 12$
Reverse leakage current	$I_R$	nA	$V_{RWM} = 12V$			100
Reverse breakdown voltage	$V_{BR}$	V	$I_{BR} = 1mA$	13	14	
Reverse holding voltage	$V_{HOLD}$	V	$I_{HOLD} = 50mA$	13	14	
Clamping voltage <sup>1)</sup>	$V_{CL}$	V	$I_{PP} = 16A, t_p = 100ns$		21.0	
Dynamic resistance <sup>1)</sup>	$R_{DYN}$				0.35	
Clamping voltage <sup>2)</sup>	$V_{CL}$	V	$V_{ESD} = 8kV$		21.0	
Clamping voltage <sup>3)</sup>	$V_{CL}$	V	$I_{PP} = 1A, t_p = 8/20\mu s$		14	16
		V	$I_{PP} = 6A, t_p = 8/20\mu s$		18.5	20
Junction capacitance	$C_J$	pF	$V_R = 0V, f = 1MHz$		5	7
		pF	$V_R = 2.5V, f = 1MHz$		4	6

(1). TLP parameter:  $Z_0 = 50 \Omega$ ,  $t_p = 100ns$ ,  $t_r = 2ns$ , averaging window from 60ns to 80ns.  $R_{DYN}$  is calculated from 4A to 16A.

(2). Contact discharge mode, according to IEC61000-4-2.

(3). Non-repetitive current pulse, according to IEC61000-4-5.

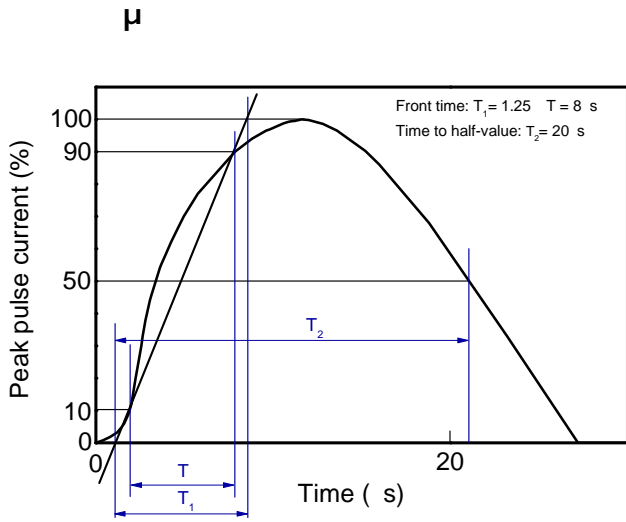
## Ordering Information (Example)

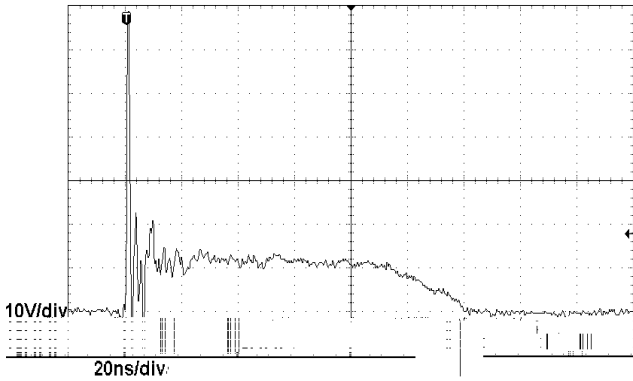
PREFERRED P/N	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ESDLC12VLZB	Approximate 0.18	10000	100000	400000	Tae& reel



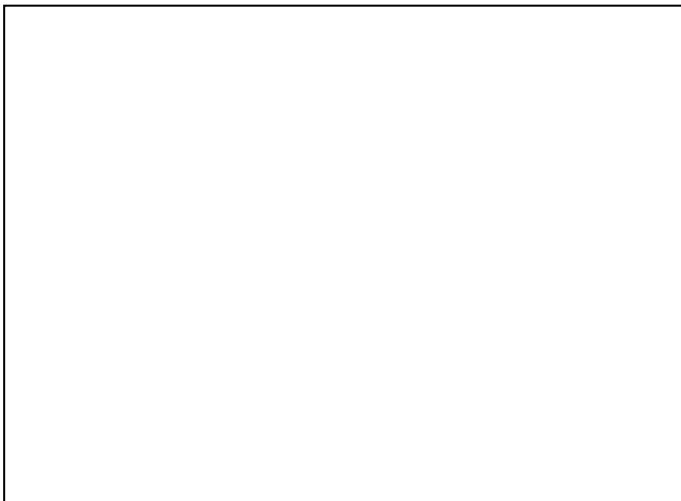
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Typical Performance Characteristics ( $T_a=25$  unless otherwise Specified)





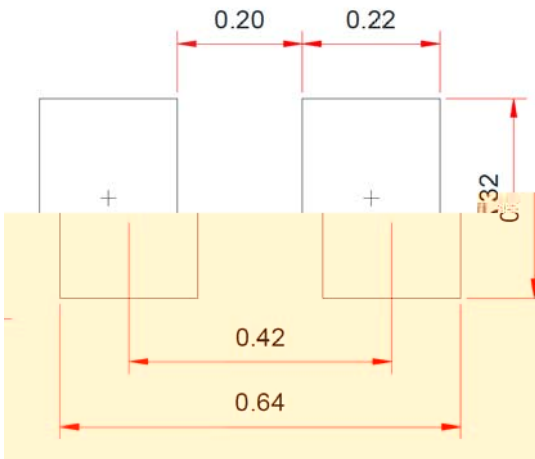
## Outline Dimensions



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)



### Notes:

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



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