



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}	± 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				± 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 ¹⁾	V_{CL}	V	$I_{PP} = 16A, t_p = 100ns$		21.0	
Dynamic resistance ¹⁾	R_{DYN}	Ω			0.35	
Clamping voltage ²⁾	V_{CL}	V	$V_{ESD} = 8kV$		21.0	
Clamping voltage ³⁾	V_{CL}	V	$I_{PP} = 1A, t_p = 8/20\mu s$		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.

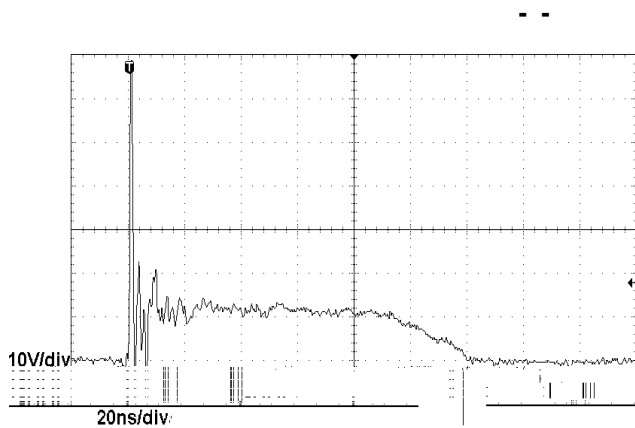
(2). Contact discharge mode, according to IEC61000-4-2.

(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





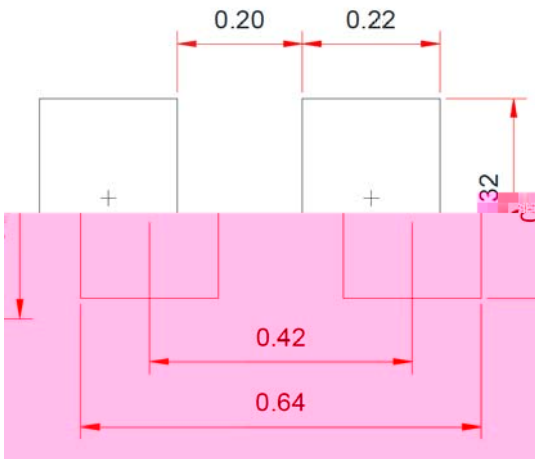
■ Outline Dimensions



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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