



Micro Commercial Components  
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**ESDLC3V3D3B**  
**Thru**  
**ESDLC12VD3B**

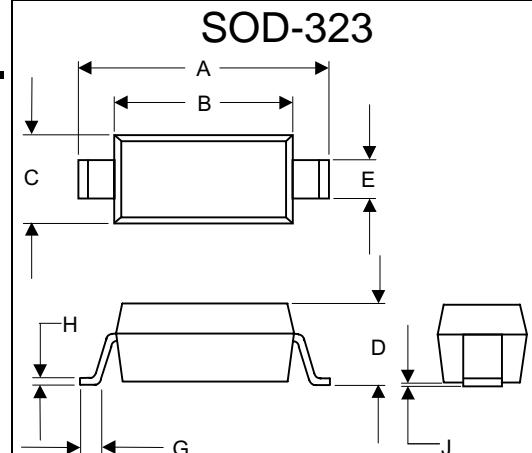
## Features

- SOD-323 package
- Low clamping voltage
- ESD protection > 40 KV
- 350W peak pulse power (8/20 us)
- Case Material: Molded Plastic. UL Flammability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

## Maximum Ratings

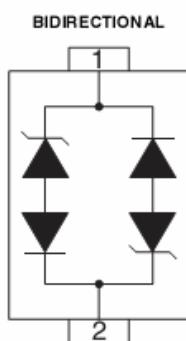
Parameter	Symbol	Limits	unit
Peak pulse power 8/20us	P <sub>PP</sub>	350	W
Operating Temperature	T <sub>j</sub>	-55~+150	°C
Storage temperature	T <sub>stg</sub>	-55~+150	°C

**3.3V-12Volts**  
**ESD Protection**  
**Device**

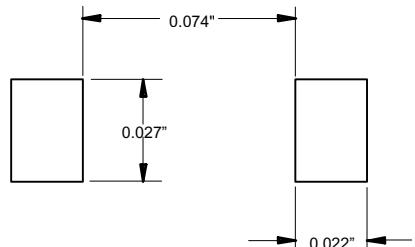


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

## Pin Configuration-Top View



### SUGGESTED SOLDER PAD LAYOUT



# ESDLC3V3D3B-ESDLC12VD3B

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ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Device	$V_{RWM}$	$I_R$ @ $V_{RWM}$	Min Breakdown Voltage $V_{BR}$ @1mA	Max Clamping Voltage $V_c$		Typ. $C_j$	Device Marking
				@ $I_p=1\text{A}$	@ $I_{PP}$		
	Volts	uA	Volts	Volts	Volts	pF	
ESDLC3V3D3B	3.3	1	4.0	7.0	36.0@28.0A	4.5	03C
ESDLC5V0D3B	5	1	6.0	9.8	32.0@21.0A	5	05C
ESDLC12VD3B	12	1	13.3	19.0	28.6@11.0A	3	2C

FIGURE 1  
PEAK PULSE POWER VS PULSE TIME

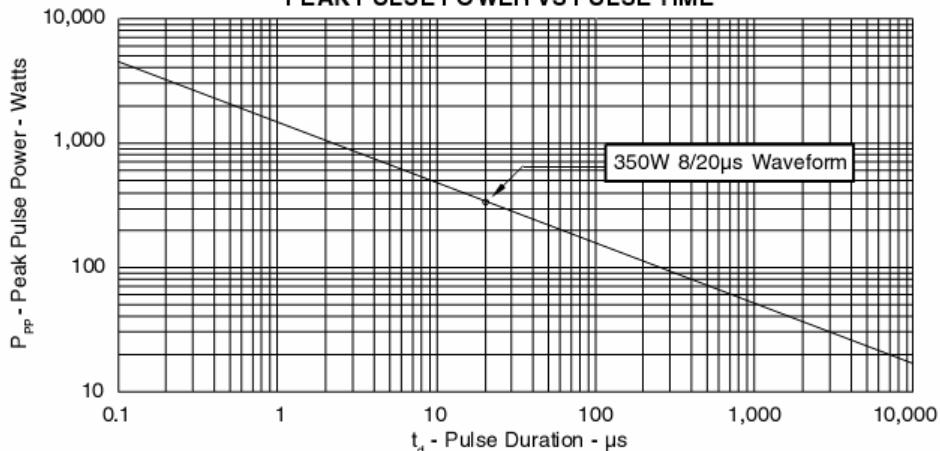
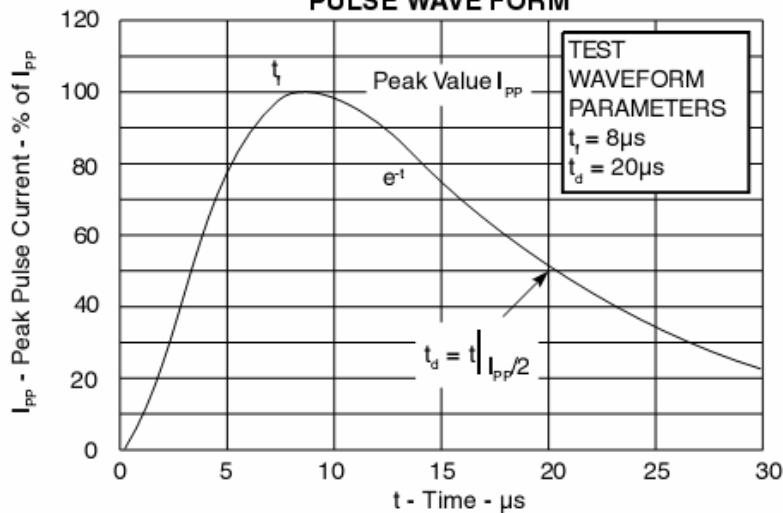


FIGURE 2  
PULSE WAVE FORM





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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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