



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# **ESDLC5V0LPB**

## **Features**

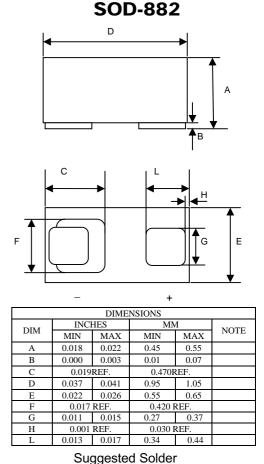
- For sensitive ESD protection
- · Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- For space saving application
- Fast response, response time less than 1ns.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

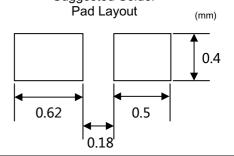
# **Maximum Ratings**

- Operating Junction &StorageTemperature: -55°C to +150°C
- Maximum Thermal Resistance: 1250°C/W Junction To Ambient

Parameter	Symbol	Limits	unit	
IEC61000-4-2(ESD)	Air		±25	12.7
	Contact		$\pm 25$	KV
ESD Voltage per human		16	K۷	
Power Dissipation	Pd	100	mw	

# 5V Low Capacitance ESD Protection Device





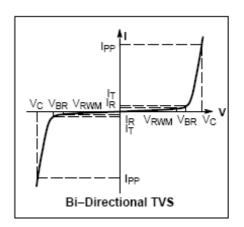


Internal Structure



## **ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise noted)

Symbol	Parameter			
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current			
Vc	Clamping Voltage @ IPP			
V <sub>RWM</sub>	Working Peak Reverse Voltage			
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>			
$V_{BR}$	Breakdown Voltage @ I <sub>T</sub>			
I <sub>T</sub>	Test Current			
P <sub>pk</sub>	Peak Power Dissipation			
С	Max. Capacitance @V <sub>R</sub> =0 and f =1MHz			



## **ELECTRICAL CHARACTERISTICS** ( $T_A = 25^{\circ}$ C unless otherwise noted, $V_F = 0.9 \text{ V Max.}$ @ $I_F = 10\text{mA}$ for all types)

Device	Device Marking	V <sub>RWM</sub> (V)	I <sub>R</sub> (μΑ) @ V <sub>RWM</sub>	V <sub>BR</sub> (V) @ I <sub>T</sub>		Ι <sub>τ</sub>	Vc @IPP = 5 A	C(pF)@VR=0V, f=1MHz	
		Max	Max	Min	Max	mA	V	Тур.	Max.
ESDLC5V0LPB	Н	5.0	0.1	5.8	8.0	1.0	12.5	12	15



## Ordering Information:

Device	Packing		
Part Number-TP	Tape&Reel: 10Kpcs/Reel		

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

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