



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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ESDLC5V0LPB

Features

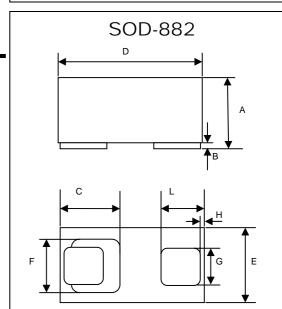
- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- For space saving application
- Fast response, response time less than 1ns.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available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

Maximum Ratings

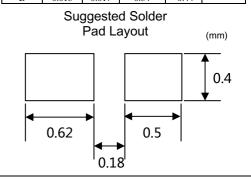
- Operating Junction &StorageTemperature: -55°C to +150°C
- Maximum Thermal Resistance: 1250°C/W Junction To Ambient

Parameter	Symbol	Limits	unit	
IEC61000-4-2(ESD)	Air		±25	1/1/
	Contact		± 25	KV
ESD Voltage per human		16	KV	
Power Dissipation	Pd	100	mw	

5V Low Capacitance ESD Protection Device



DIMENSIONS					
DIM	INCHES		M	NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.018	0.022	0.45	0.55	
В	0.000	0.003	0.01	0.07	
С	0.019REF.		0.470		
D	0.037	0.041	0.95	1.05	
Е	0.022	0.026	0.55	0.65	
F	0.017 REF.		0.420 REF.		
G	0.011	0.015	0.27	0.37	
Н	0.001 REF.		0.030 REF.		
L	0.013	0.017	0.34	0.44	



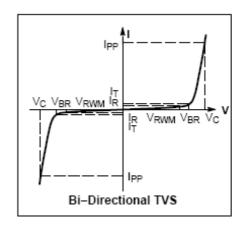


Internal Structure



ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ I _T		
I _T	Test Current		
P _{pk}	Peak Power Dissipation		
С	Max. Capacitance @V _R =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	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR}		Ι _τ	Vc @IPP = 5 A	C(pF)@VR=0V, f=1MHz	
Marking	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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