

Micro Commercial Components



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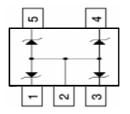
Fax: (818) 701-4939

ESDLC5V0L4

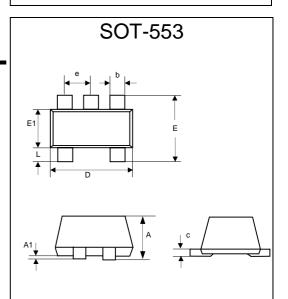
Features

- Four Separate Unidirectional Configurations for Protection
- Excellent clamping capability
- Low Leakage Current <1μA @ 5 Volts
- Small Package
- Low Capacitance
- Complies to USB 1.1 Low Speed & Full Speed Specifications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Pin Configuration



5 Volts ESD Protection Device



DIM	INC	HES	MM		
	MIN	MAX	MIN	MAX	
Α	.021	.024	.525	.60	
A1	.00	.002	.00	.05	
е	.018	.022	.45	.55	
С	.004	.006	.09	.16	
D	.059	.067	1.5	1.7	
b	.007	.011	.17	.27	
E1	.043	.051	1.1	1.3	
Е	.059	.067	1.5	1.7	
Ĺ	.004	.012	.100	.300	

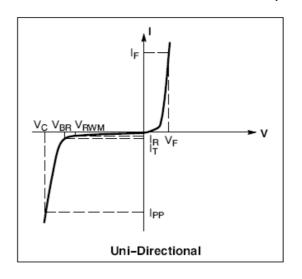
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ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise noted)

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Symbol	Parameter				
I _{PP}	Maximum Reverse Peak Pulse Current				
V _C	Clamping Voltage @ I _{PP}				
V_{RWM}	Working Peak Reverse Voltage				
I _R	Maximum Reverse Leakage Current @ V _{RWM}				
V_{BR}	Breakdown Voltage @ I _T				
Ι _Τ	Test Current				



Maximum Ratings (Ta=25℃ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak Power Dissipation @ 8 X 20 μs @T _A = 25°C (Note 1)	P _{pk}	20	W
Steady State Power 1 Diode (Note 2)	P D	150	mW
Thermal Resistance Junction-to-Ambient Above 25 °C, derate	Rөja	833	°C/W
Maximum Junction Temperature	T _{jmax}	150	$^{\circ}$
Operating Junction and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C
Lead Solder Temperature (10 Seconds Duration)	T∟	260	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise noted, V_F = 0.9 V Max. @ I_F = 10mA for all types)

Device	Device Marking		voltage curr		ikage rrent @ V _{RM}	V _C Max @I _{PP}		Capacitance @VR=0V Bias (pF) (Note 3)	Capacitance @VR=3V Bias (pF) (Note 3)	
		Min	Mon	Max	V _{RWM}	I _{RWM} (μ A)	V _c (V)	I _{PP} (A)	Max	Мах
ESDLC5V0L4	5H	6.0	6.5	7.2	5.0	1.0	11	1.6	14	11.5

- 1. Non-repetitive current per Figure 1.
- 2. Only 1 diode under power. For all 4 diodes under power, P_D will be 25%. Mounted on FR-4 board with min pad.
- 3. Capacitance of one diode at f = 1MHz, Ta = 25°C



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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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