



Micro Commercial Components  
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# ESDLC5V0K5

## 5 Volts ESD Protection Device

### Features

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

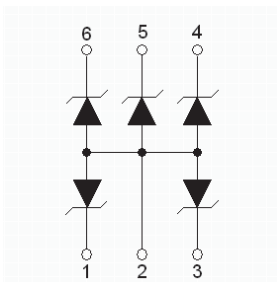
### Maximum Ratings

- Operating Junction & Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 833°C/W Junction To Ambient

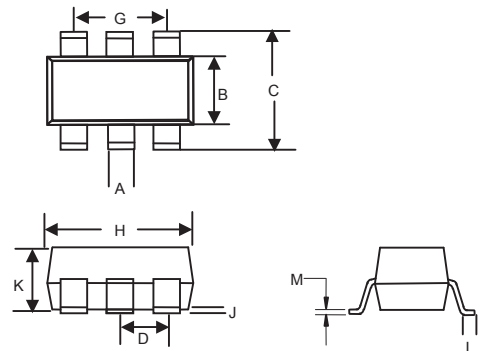
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±15 ±15	KV
ESD Voltage per human body mode		16	KV
Power Dissipation(Note 1)	Pd	150	mw
Peak Power Dissipation@8/20us	Ppk	100	W

1. Only 1 diode under power. For all 5 diodes under power, PD will be 20%. Mounted on FR-4 board with min pad.

### Pin Configuration



### SOT-363



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	0.006	0.014	0.15	0.35	
B	0.045	0.053	1.15	1.35	
C	0.079	0.096	2.00	2.45	
D	0.026 Nominal		0.65 Nominal		
G	0.047	0.055	1.20	1.40	
H	0.071	0.087	1.80	2.20	
J	---	0.004	---	0.10	
K	0.035	0.043	0.90	1.10	
L	0.010	0.018	0.26	0.46	
M	0.003	0.006	0.08	0.15	

**ELECTRICAL CHARACTERISTICS** (Ta= 25°C unless otherwise noted, V<sub>F</sub> = 0.9 V Max. @ I<sub>F</sub> = 10mA for all types)

Device	Device Marking	Breakdown voltage V <sub>BR</sub> @ 1mA(Volts)			Leakage current I <sub>RM</sub> @ V <sub>RM</sub>		V <sub>C</sub> Max @I <sub>PP</sub>		Capacitance @V <sub>R</sub> =0V Bias (pF) (Note 1)	Capacitance @V <sub>R</sub> =3V Bias (pF) (Note 1)
		Min	Mon	Max	V <sub>RWM</sub>	I <sub>RWM</sub> (μA)	V <sub>C</sub> (V)	I <sub>PP</sub> (A)	Max	Max
<b>ESDLC5V0K5</b>	L2	6.2	6.7	7.2	5.0	1.0	10.8	1.6	11.5	10.5

1. 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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