



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

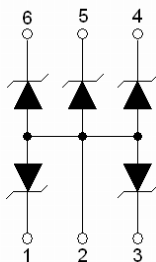
Maximum Ratings

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

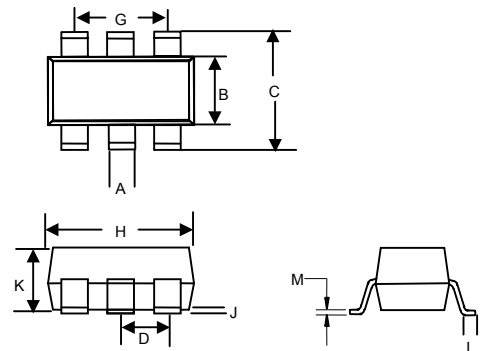
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±15 ±15	KV
ESD Voltage per human body mode		16	KV
Power Dissipation(Note 1)	Pd	150	mw
Peak Power Dissipation@8/20us	Ppk	100	W

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	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	



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

Device	Device Marking	Breakdown voltage V _{BR} @ 1mA(Volts)			Leakage current I _{RM} @ V _{RM}		V _C Max @ I _{PP}		Capacitance @V _R =0V Bias (pF) (Note 1)	Capacitance @V _R =3V Bias (pF) (Note 1)
		Min	Mon	Max	V _{RWM}	I _{RWM} (μA)	V _C (V)	I _{PP} (A)	Max	Max
ESDLC5V0K5	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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