



**THE DATASHEET OF
ESD5V0K5-TP**





Micro Commercial Components

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ESD5V0K5

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
- Fast response ,response time less than 1ns.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensivity Level 1

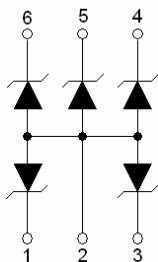
Maximum Ratings

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

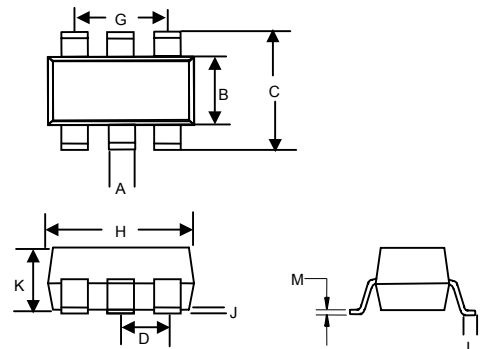
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±15 ±15	KV
ESD Voltage per human body mode		16	KV
Power Dissipation(Note 1)	Pd	150	mw
Peak Power Dissipation@8/20us	Ppk	100	W

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

PinConfiguration



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 ($T_A = 25^\circ\text{C}$ unless otherwise noted, $V_f = 0.9\text{ V Max.}$ @ $I_f = 10\text{mA}$ for all types)

Device*	Device Marking	V_{RWM} (V)	I_R (μA) @ V_{RWM}	V_{BR} (V) @ I_T		I_T	V_c (V) @Max $I_{PP}=1\text{A}$	V_c (V) @Max $I_{PP}=5\text{A}$	I_{PP} (A)	C (pF)
		Max	Max	Min	Max	mA	Max	Max	Max	Max
ESD5V0K5	22	5.0	5	6.0	7.2	1.0	9.5	12.5	8	130



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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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