



Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

Phone: (818) 701-4933 Fax: (818) 701-4939

ESD5V0J4

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 Sensitivity Level 1

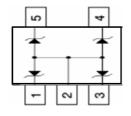
Maximum Ratings

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

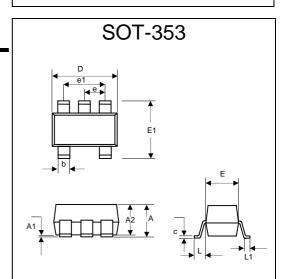
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air		±30	10.7
Contact		±30	KV
ESD Voltage per human body mode		16	K۷
per machine mode		400	V
Power Dissipation(Note 1)	Pd	150	mw
Peak Power Dissipation@8/20us	Ppk	200	W

1.Only 1 diode under power. For all 4 diodes under power, PD will be 25%. Mounted on FR--4 board with min pad.

Pin Configuration



5 Volts ESD Protection Devices



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	
Α	.035	.043	0.90	1.10	
A1	.00	.004	.00	.100	
A2	.035	.039	.900	1.00	
b	.006	.014	.150	.350	
С	.003	.006	.080	.150	
D	.079	.087	2.0	2.2	
Е	.045	.053	1.15	1.35	
E1	.085	.096	2.15	2.45	
е	.026 TYP		.650 TYP		
e1	.047	.055	1.2	1.4	
L	.021 REF		.525 REF		
L1	.010	.018	.260	.460	



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 Marking	V _{RWM} (V)	I _R (μ A) @ V _{RWM}	I	Ι _τ	V _F (V) @I _F =200mA	V _c (V) @Max I _{PP} ⁺=5A	C (pF)	
		Max	Max	Min	Max	mA	Max	Max	Тур
ESD5V0J4	12	5.0	5	6.0	7.2	1.0	1.25	12.5	90

TYPICAL CHARACTERISTICS

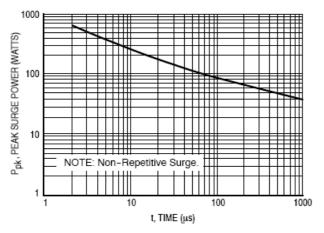


Figure 1. Pulse Width

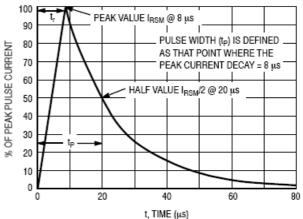


Figure 2. 8 \times 20 μ s Pulse Waveform



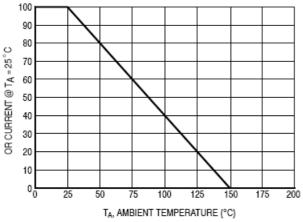


Figure 3. Pulse Derating Curve

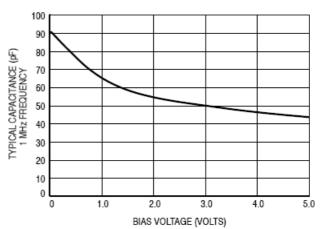


Figure 4. Capacitance

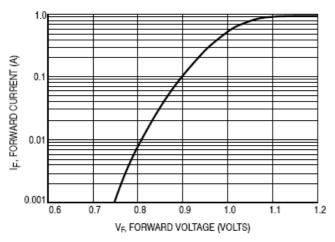


Figure 5. Forward Voltage

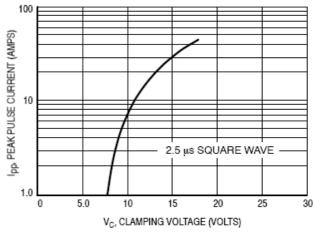


Figure 6. Clamping Voltage versus Peak Pulse Current (Reverse Direction)

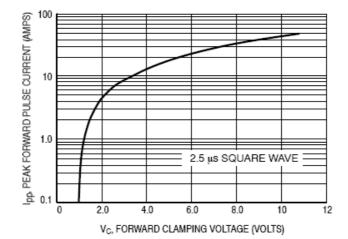


Figure 7. Clamping Voltage versus Peak Pulse Current (Forward Direction)



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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