

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- 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

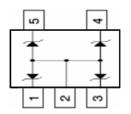
Maximum Ratings

- 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		\pm 30	
Contact		\pm 30	ΚV
ESD Voltage per human body mode		16	KV
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.

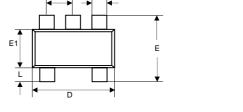
Pin Configuration

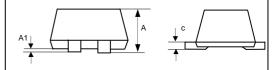


ESD Protection Device SOT-553

5 Volts

ESD5V0L4





DIM	INC	HES	MM		
DIM	MIN	MAX	MIN	MAX	
А	.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	
L	.004	.012	.100	.300	

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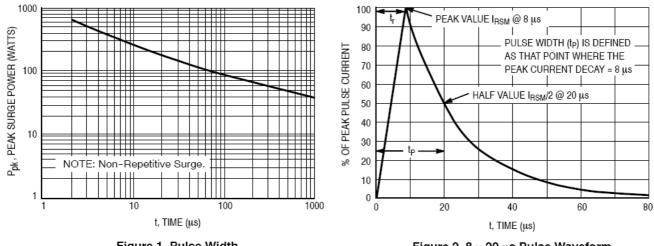


Device*	Device Marking	V _{RWM} (V)	I _R (μΑ) @V _{RWM}		∝ (V) ⊉ I₁	IT	V _F (V) @I _F =200mA	V _c (V) @Мах I _{PP} =1А	V _c (V) @Max I _{PP} =5A	C (pF)
		Max	Max	Min	Max	mA	Max	Max	Max	Max
ESD5V0L4	42	5.0	5	6.0	7.2	1.0	1.25	10.5	13.5	80

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

1. Non--repetitive current per Figure 1. Derate per Figure 2.

TYPICAL CHARACTERISTICS



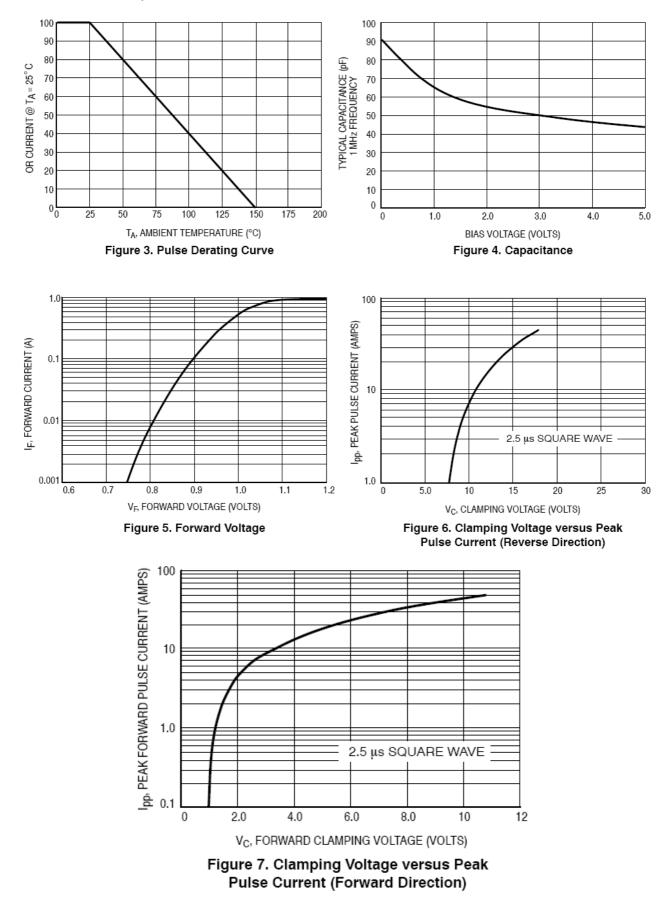




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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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