Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC) ESDLC5V0T2-TP

For any questions, you can email us directly: sales@integrated-circuit.com

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





Micro Commercial Components Micro Commercial Components 20736 Marilla Street Chatsworth

> Chatsworth, CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Stand-off Voltage:5V
- Low leakage
- Low clamping voltage
- 500W peak pulse power (tp=8/20us)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

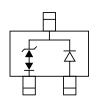
aximum Ratings

Operating Junction Temperature: -55°C to +125°C

StorageTemperature: -55°C to +125°C

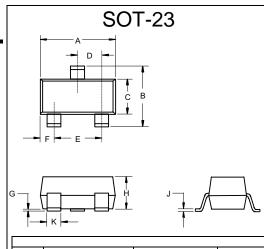
Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		± 15	IV.
	Contact		\pm 8	KV
IEC61000-4-5(lightning)			24	Α
Peak Pulse Power		Pd	500	W

Pin Configuration-Top View

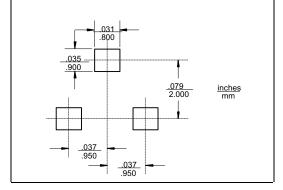


ESDLC5V0T2

5Volts **ESD Protection Devices**



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
O	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
D	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite Datasheet of ESDLC5V0T2-TP - TVS DIODE 5VWM 10VC SOT23

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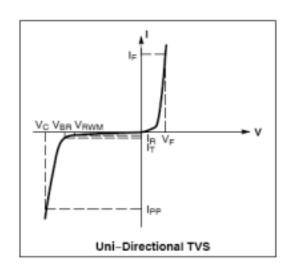


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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

UNIDIRECTIONAL (Circuit tied to Pins 1 and 3 or 2 and 3)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ I _{PP}		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ I _T		
I _T	Test Current		
I _F	Forward Current		
V _F	Forward Voltage @ I _F		
P _{pk}	Peak Power Dissipation		
С	Capacitance @V _R =0 and f =1MHz		



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

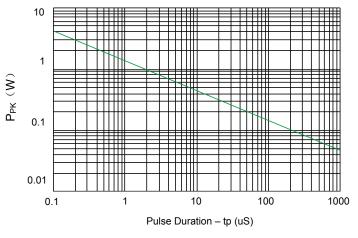
Device V _{RWM} (V)	I _R (Ç A) @ V _{RWM}	V _{BR} (V) @ I _τ (Note 2)		Ι _τ	Vc @IPP =1 A	Vc @IPP=5A	P _{pk} + (W)	C (pF) Pin 1 to 3	
	Max	Max	Min	Max	mA	V	V	Max	Тур
ESDLC5V0T2	5	0.5	6.2	7.2	1.0	8	10	500	3.0

 V_{BR} is measured with a pulse test current I_{T} at an ambient temperature of 25°C.





TYPICAL CHARACTERISTICS



110 100 % Of Rated Power 80 60 40 20 0 25 0 75 100 125 150 Ambient Temperature - T_A (°C)

Fig1.Non-Repetitive Peak Pulse Power vs. Pulse time

Fig2. Power Derating Curve

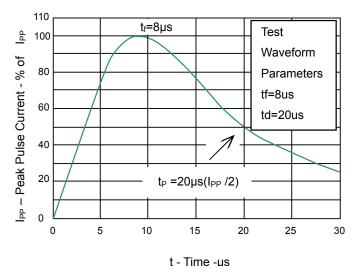


Fig 3.Pulse Waveform

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of ESDLC5V0T2-TP - TVS DIODE 5VWM 10VC SOT23

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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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