

Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC) ESDLC5V0DFN10-TP

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



Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite Datasheet of ESDLC5V0DFN10-TP - TVS DIODE 5VWM 28VC DFN10 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



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

Features

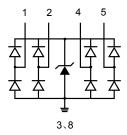
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Small package saves board space
- Protects four(4) I/O lines
- Low clamping voltage
- 150W peak pulse power (tp=8/20us)
- Low capacitance
- Can handle multiple ESD strikes

Maximum Ratings

Operating Junction & StorageTemperature: -55°C to +150°C

Parameter	Symbol	Limits	unit	
IEC61000-4-2(ESD)	Air		±15	кv
	Contact		\pm 8	κv
IEC61000-4-5 (lightning)		24	Α	
Peak Pulse Power: @ 8/20us		Ррр	150	W

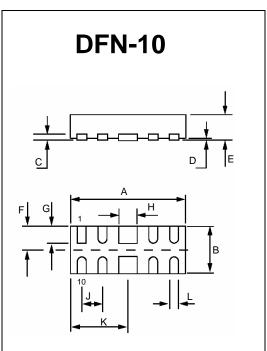
PinConfiguration



Pin	Identification
1,2,4,5	Input lines
6,7,9,10	Output Lines (No Internal Connection)
3,8	Ground

ESDLC5V0DFN10

5 Volts ESD Protection Device



		DIMEN	SIONS		
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.0094	0.102	2.40	2.60	
В	.035	.043	0.90	1.10	
С	.005		0.13		
D	.000	.002	0.00	0.05	
Е	.020	.026	0.50	0.65	
F	.017	.022	0.45	0.55	
G	.012	.017	0.30	0.425	
Н	.014	.018	0.35	0.45	
J	.020BSC		0.5BSC		
К	.047	.056	1.20	1.30	
L	.006	.010	0.15	0.25	

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Electrical characteristics per line@25°C(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse stand-off voltage	V _{RWM}				5	V
Reverse Breakdown voltage	V _{BR}	I _t = 1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} = 5V T=25°C			1	μA
Junction Capacitance	Cj	V _R =0V f = 1MHz		0.5	0.9	pF
Clamping voltage	Vc	Ipp=1A			12.5	V
Clamping voltage	Vc	lpp=5A			28.0	V

Typical Characteristics

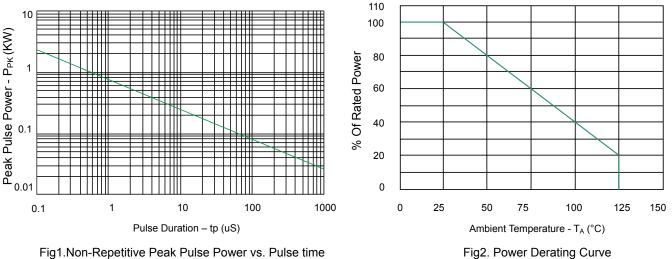
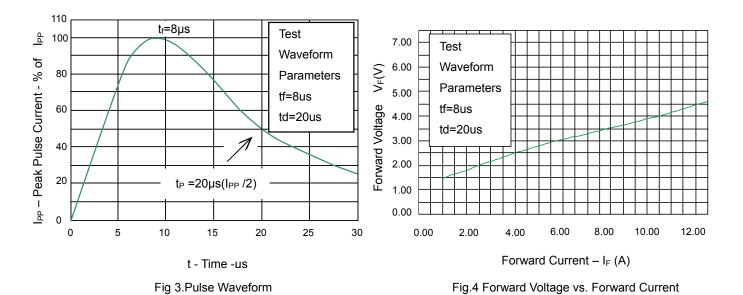


Fig2. Power Derating Curve



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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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