

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ESDLC0524DFN10

Features

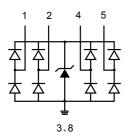
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
 Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Small package saves board space
- Protects four(4) I/O lines
- Low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

Maximum Ratings

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

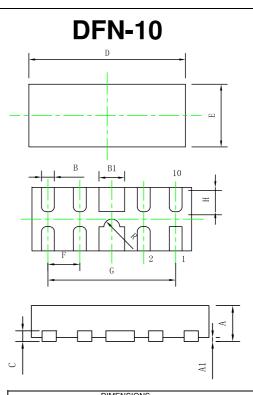
Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±17	KV
	Contact		± 12	ΝV
IEC61000-4-5 (Surge): @ 8/20us			5	Α
Peak Pulse Power: @ 8/20us		Ррр	150	W

PinConfiguration



Pin	Identification
1,2,4,5	Input lines
6,7,9,10	Output Lines
3,8	Ground

5 Volts **ESD Protection Device**



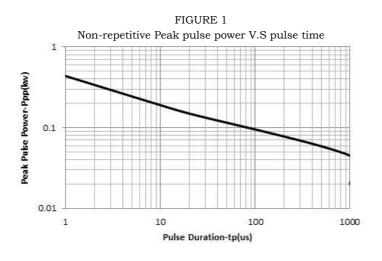
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.016	.020	0.40	0.50	
A1		.002		0.05	
В	.006	.010	0.15	0.25	
B1	.014	.018	0.35	0.45	
С	.004	.008	0.10	0.20	
D	.095	.102	2.40	2.60	
Е	.035	.043	0.90	1.10	
F	.020BSC		0.50	BSC	
G	.079BSC		2.00BSC		
Н	.012	.017	0.30	0.425	
R	.005	.005	0.12	0.13	

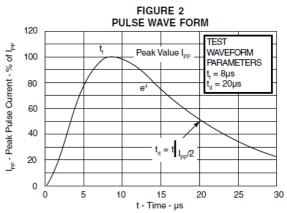


Electrical characteristics per line@25°C(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse stand-off voltage	V_{RWM}	Any I/O Pin to GND			5	V
Reverse Breakdown voltage	V_{BR}	I _Z =1mA Any I/O Pin to GND	6.1		8.5	V
Reverse Leakage Current	I _R	V _R =5V Any I/O Pins to GND			0.9	μΑ
Forward Voltage	V_{F}	I _F =15mA GND to any I/O Pins			1.15	V
Junction Capacitance	C _{I/O-GND} C _{I/O-I/O}	V _R =0V f = 1MHz			0.8 0.4	pF
Clamping voltage	V_{C}	Ipp=1A tp=8/20 us			15	V
Clamping voltage	V _C	Ipp=5A tp=8/20 us			28	V

Typical Characteristics





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Typical Characteristics

FIGURE 3
Power Derating Curve

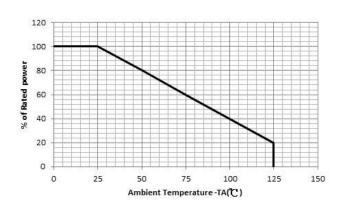
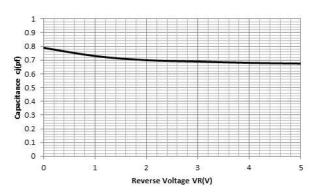
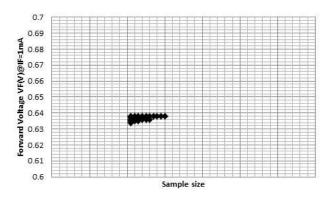


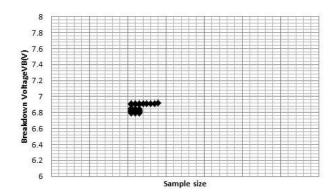
FIGURE 4
Normalized Capacitance vs.Reverse Voltage



 $\label{eq:figure 5} Forward\ Voltage\ VF\ Map\ GND\ to\ I/O\ pins$



 $\label{eq:figure 6} FIGURE~6$ Breakdown Voltage VB Map Any I/OPin to GND.



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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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