



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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TDS SERIES SP 3 POSITION 3 STATE (+,0,-) DIP SWITCHES

FEATURES

3 code functions per position (n).
Self-cleaning twin point contacts.
UL94V-O materials used throughout.
Process compatible.
Crimped terminals for positive p.c.
board retention during installation.

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life	2000 operations minimum per switch
Contact rating, non-switching	100 mA at 50 VDC
Contact rating, switching	25 mA at 24 VDC
Contact resistance	Initial:50 mΩ max. After 2000 operations: 100 mΩ max.
Insulation resistance	100 MΩ minimum between adjacent terms.at 500 VDC
Dielectric strength	500 VDC for 1 minute
Capacitance	5 pf. maximum

MECHANICALS, THERMALS

Mechanical life	2000 operations minimum per switch
Operating force	1000 grams maximum
Vibration	10-55-10 Hz./1 min. (3 planes) per MIL-STD-202F, METHOD 201A
Shock	50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B
Temperature range	Operating and storage: -40°C to +85°C

SOLDERING RECOMMENDATIONS*

Hand soldering	320°C max. for 2 seconds max.(30 watt iron max.)
Wave soldering	260°C max. for 5 seconds

*For best results, keep actuator in 'O' position during soldering.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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MATERIALS

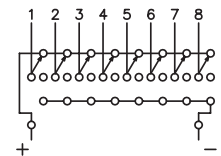
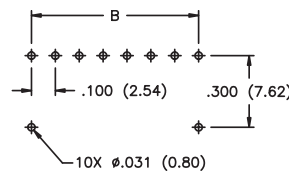
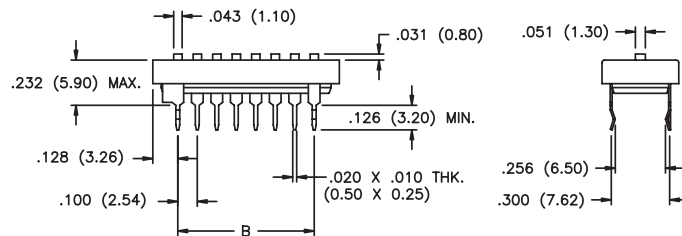
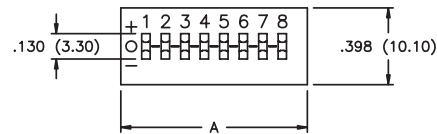
Base	UL94V-O, glass fiber filled PBT, black
Cover	UL94V-O, glass fiber filled PBT, black
Actuators	UL94V-O, glass fiber filled Nylon, white
Contacts	Gold over nickel over brass
Terminals	90/10 Solder plate over brass

PACKAGING

Normally supplied in standard IC tubes with all actuators in the 'O' position

MODEL NUMBER	NO. OF POS. (n)	A DIM. (MAX)		B DIMENSION	
		INCHES	MM	INCHES	MM
TDS04	4	.557	14.14	.300	7.62
TDS08	8	.957	24.3	.700	17.78
TDS09	9	1.057	26.84	.800	20.32
TDS10	10	1.157	29.39	.900	22.86

MECHANICAL OUTLINE



PRINTED CIRCUIT BOARD OUTLINE
(8 POSITIONS SHOWN)

SCHEMATIC
(8 POSITIONS SHOWN)