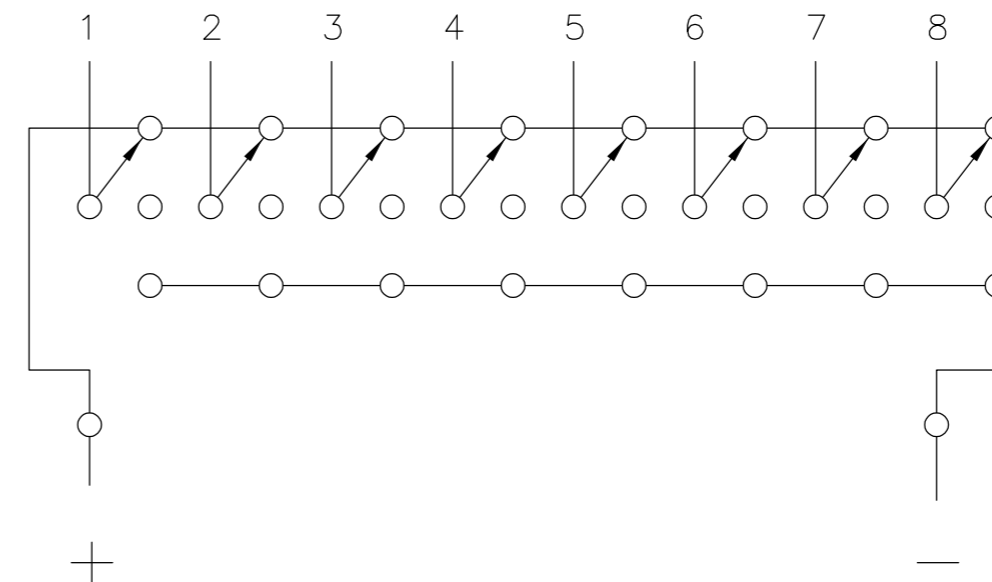
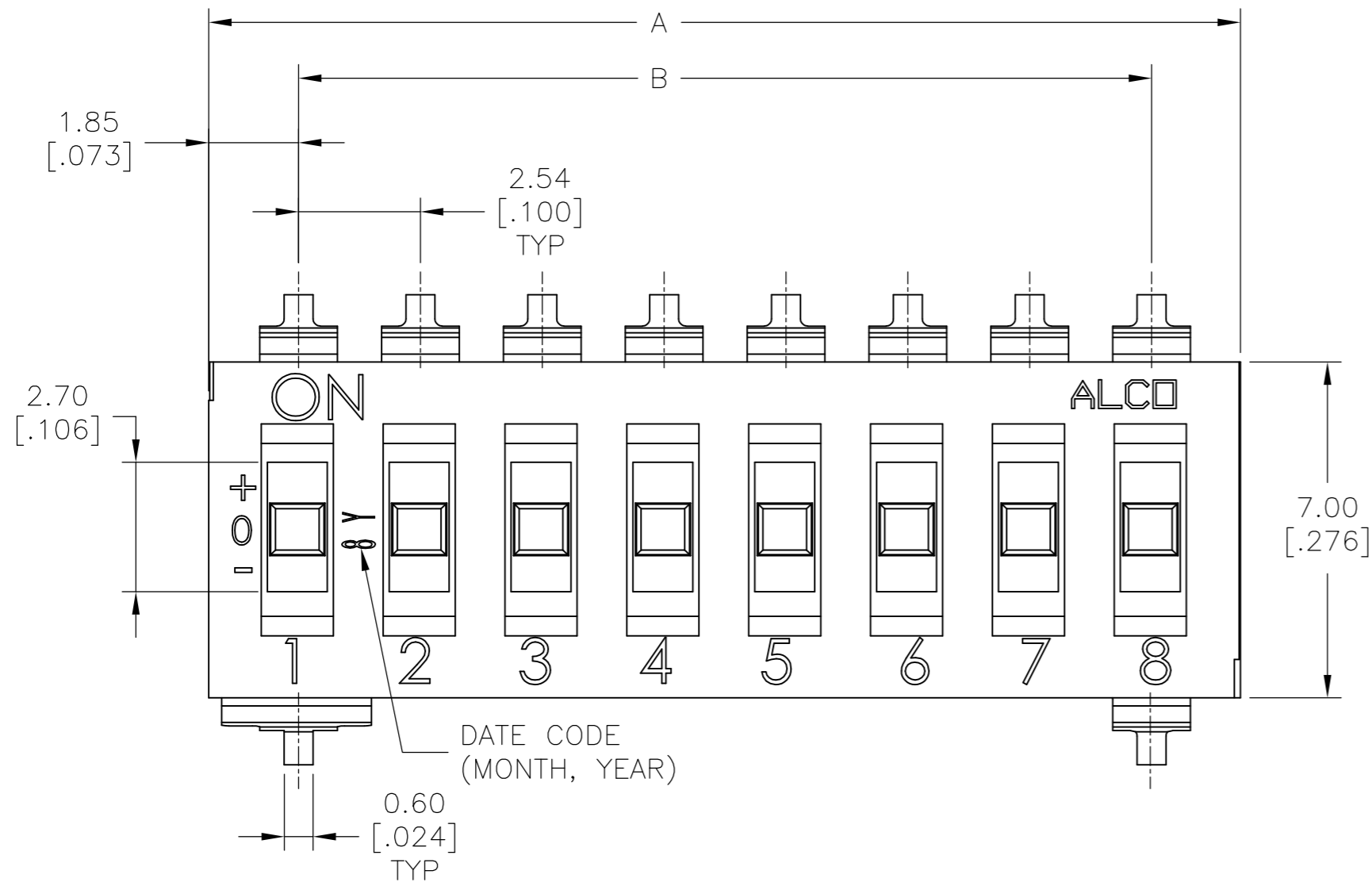


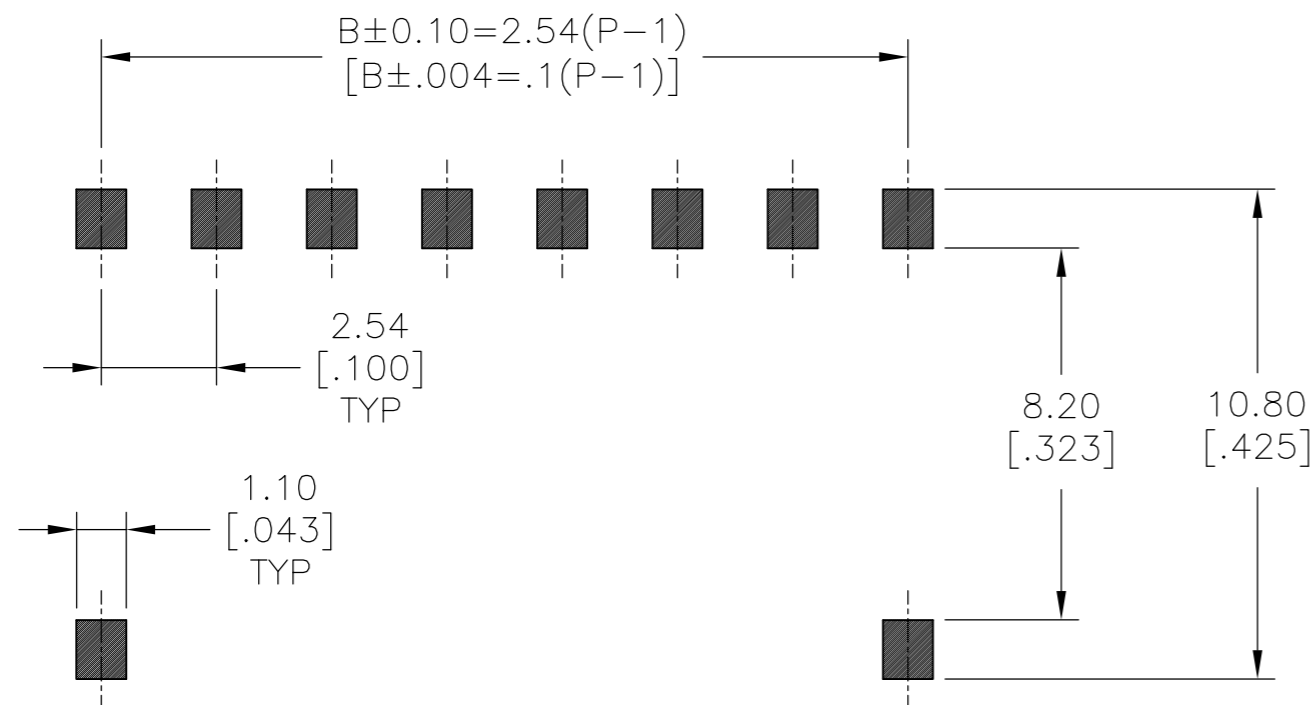
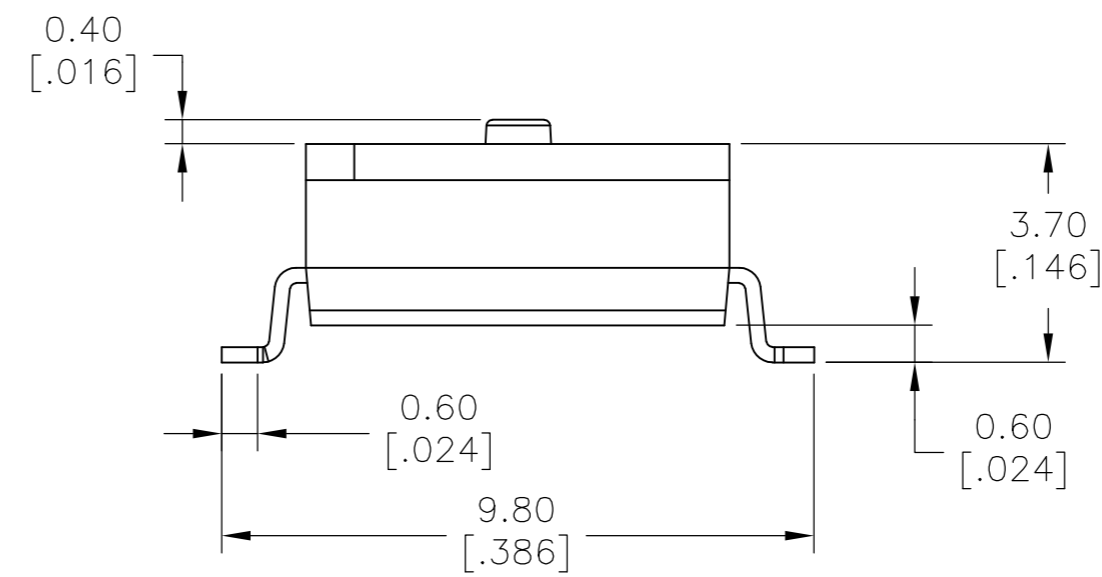
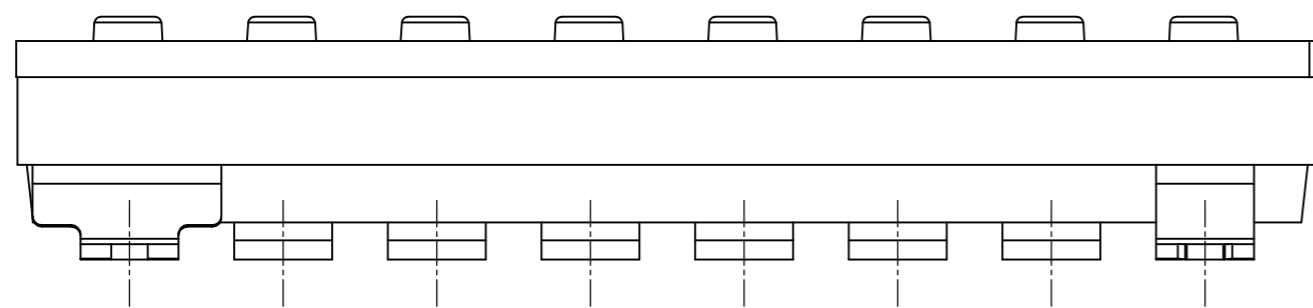
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# RECESSED ACTUATOR

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
A		INITIAL RELEASE	29MAY2017	SK AS



CIRCUIT DIAGRAM



P.C.B. LAYOUT

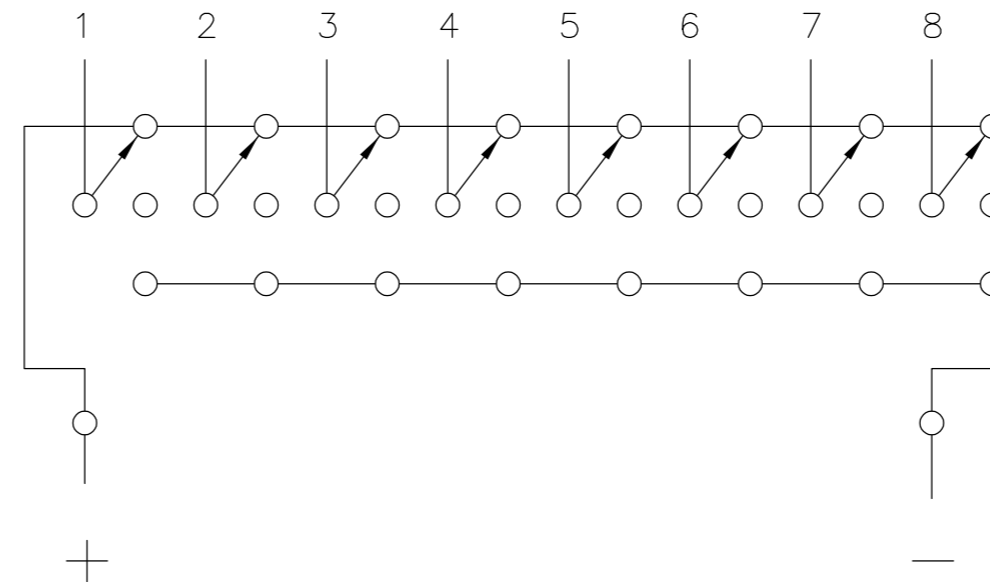
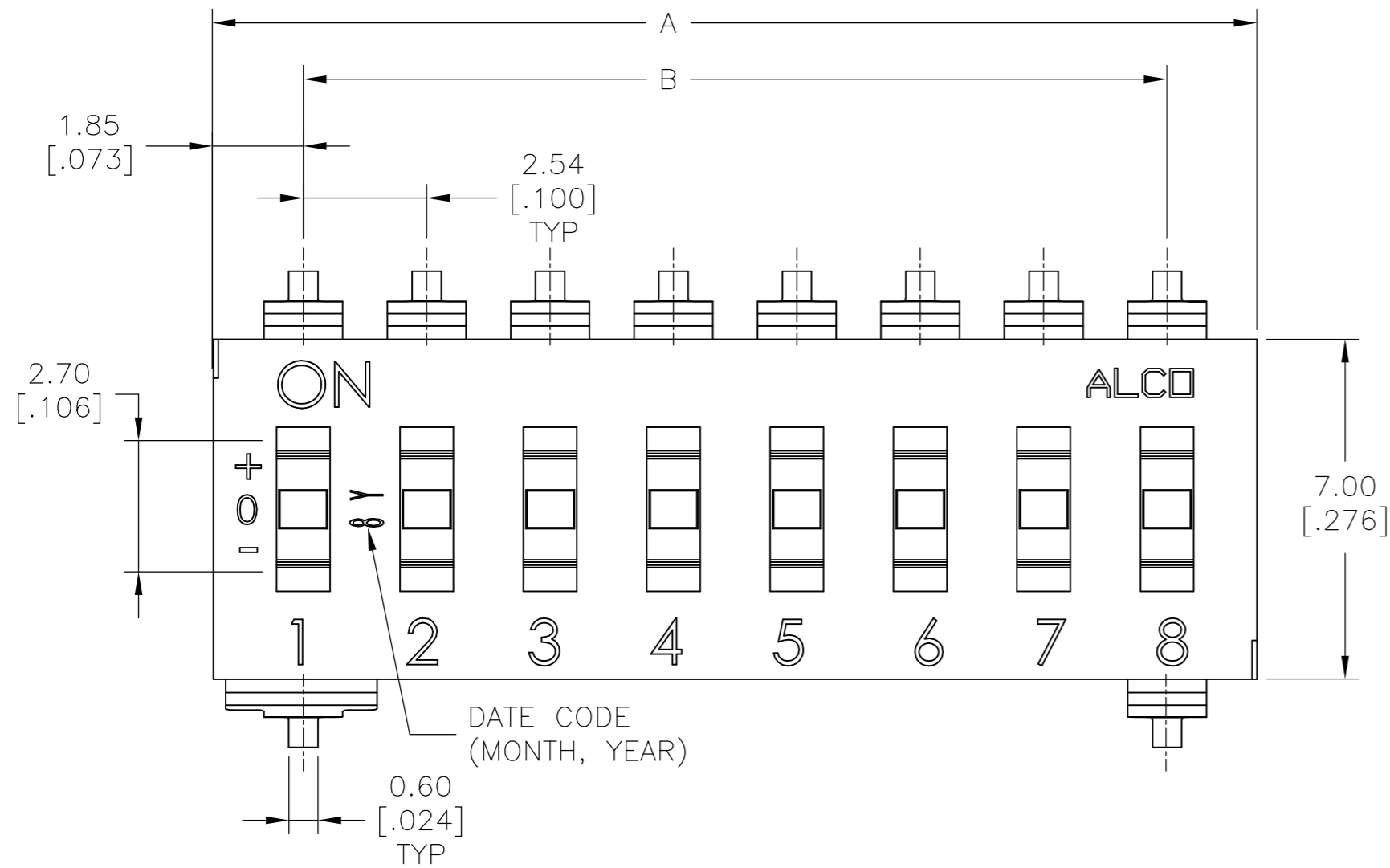
TDS SG 04  
 POSITIONS: 04,05,08,09,10  
 SMT: GULL WING  
 ACTUATOR: N=RAISED, R=RECESSED  
 ROHS COMPLIANT  
 PACKAGING: TU=TUBE, TR=TAPE AND REEL  
 SEAL: N=NONE, S=TOP SEAL

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: 29MAY2017 SHIVAKUMAR S S		
DIMENSIONS: mm [INCHES]		CHK: 29MAY2017 ALEXANDER SHARPE		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: 29MAY2017 ALEXANDER SHARPE	NAME: TRI-STATE DIP SWITCHES	
0 PLC ± -	1 PLC ± -	PRODUCT SPEC	SIZE: A2	CAGE CODE: 00779
2 PLC ± 0.20 [.008]	3 PLC ± -	APPLICATION SPEC	DRAWING NO: C=2319747	RESTRICTED TO: -
4 PLC ± -	ANGLES ± -		SCALE: 8:1	SHEET: 1 of 4
MATERIAL: -	FINISH: -	WEIGHT: -	CUSTOMER DRAWING	REV: A

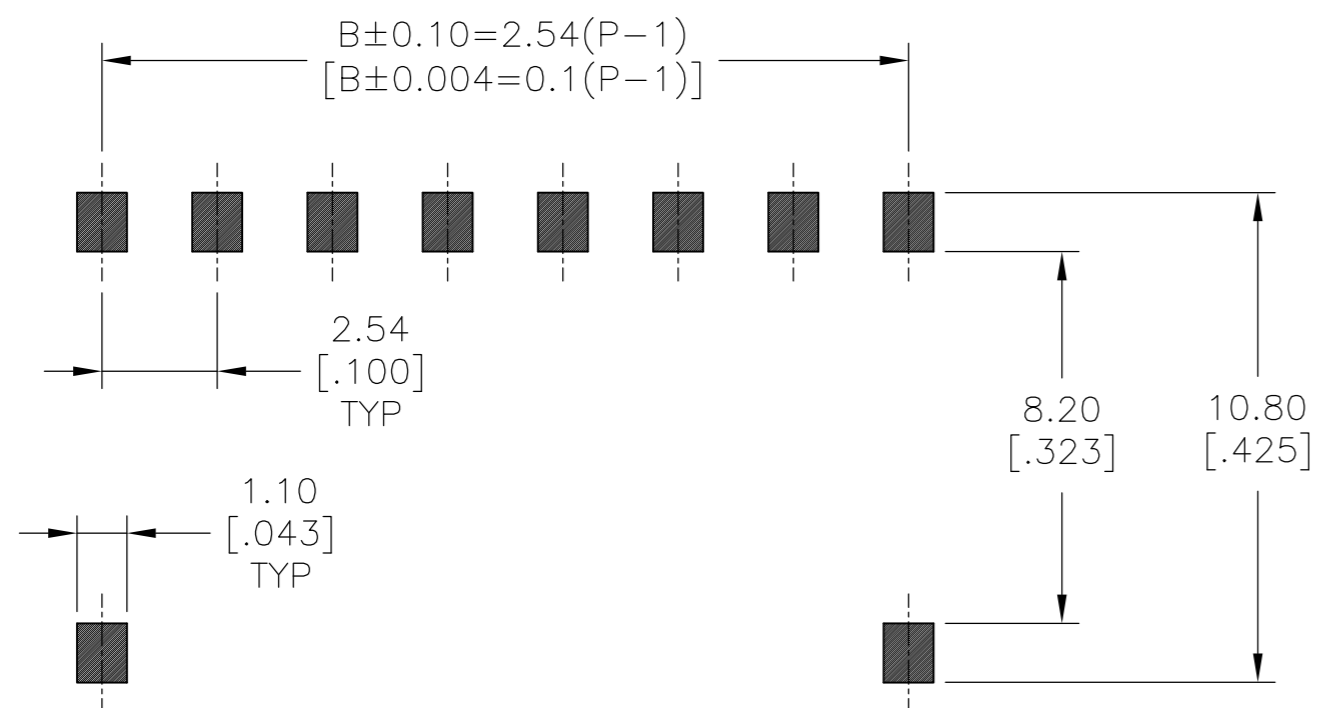
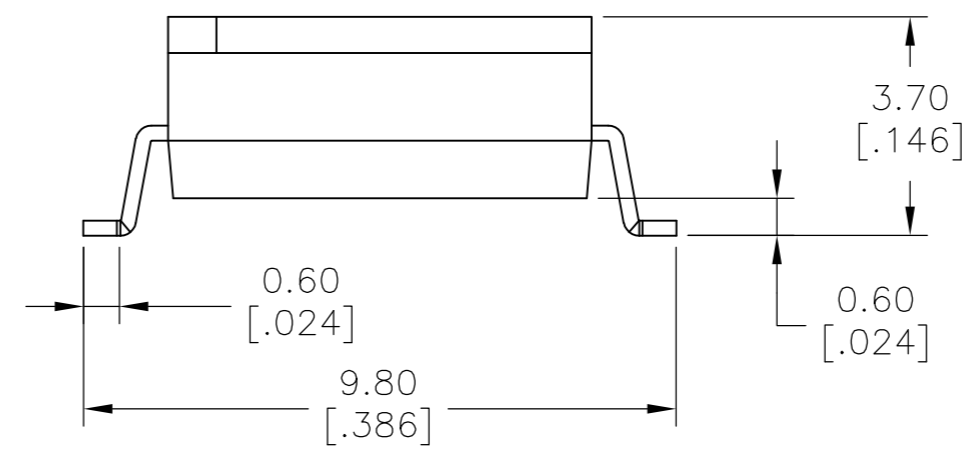
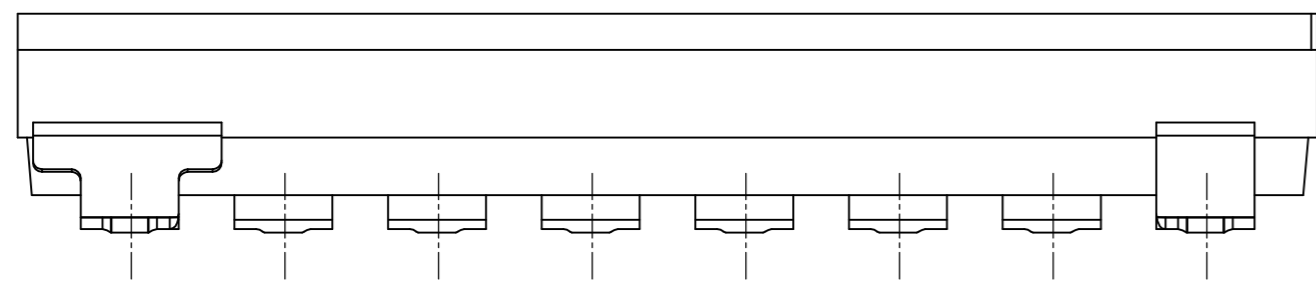
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REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

### RECESSED ACTUATOR



CIRCUIT DIAGRAM



P.C.B. LAYOUT

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHIVAKUMAR S S 29MAY2017		
DIMENSIONS: mm[INCHES]		CHK ALEXANDER SHARPE 29MAY2017		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD ALEXANDER SHARPE 29MAY2017	NAME TRI-STATE DIP SWITCHES	
0 PLC ± - 1 PLC ± - 2 PLC ± 0.20[.008] 3 PLC ± - 4 PLC ± - ANGLES ± -		PRODUCT SPEC -	RESTRICTED TO -	
MATERIAL -		FINISH -	WEIGHT -	SIZE A2
		CUSTOMER DRAWING		CAGE CODE 00779
		DRAWING NO C=2319747		SCALE 8:1
		SHEET 2 of 4		REV A

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REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

TOP TAPE SEAL	ACTUATOR	NOTE	B	A	No OF POSITION	TE DESCRIPTIVE PART NUMBER	TE PART NUMBER
			DIM				
YES	RECESSED	3	22.86 [.900]	26.56 [1.046]	10	TDS10SGRSTR04	3-2319747-0
			20.32 [.800]	24.02 [.946]	9	TDS09SGRSTR04	2-2319747-9
			17.78 [.700]	21.48 [.846]	8	TDS08SGRSTR04	2-2319747-8
			10.16 [.400]	13.86 [.546]	5	TDS05SGRSTR04	2-2319747-7
			7.62 [.300]	11.32 [.446]	4	TDS04SGRSTR04	2-2319747-6
			22.86 [.900]	26.56 [1.046]	10	TDS10SGRNTR04	2-2319747-5
NO	RAISED	2	20.32 [.800]	24.02 [.946]	9	TDS09SGRNTR04	2-2319747-4
			17.78 [.700]	21.48 [.846]	8	TDS08SGRNTR04	2-2319747-3
			10.16 [.400]	13.86 [.546]	5	TDS05SGRNTR04	2-2319747-2
			7.62 [.300]	11.32 [.446]	4	TDS04SGRNTR04	2-2319747-1
			22.86 [.900]	26.56 [1.046]	10	TDS10SGNNTU04	1-2319747-0
			20.32 [.800]	24.02 [.946]	9	TDS09SGNNTU04	2319747-9
			17.78 [.700]	21.48 [.846]	8	TDS08SGNNTU04	2319747-8
			10.16 [.400]	13.86 [.546]	5	TDS05SGNNTU04	2319747-7
			7.62 [.300]	11.32 [.446]	4	TDS04SGNNTU04	2319747-6
			22.86 [.900]	26.56 [1.046]	10	TDS10SGNNTU04	2319747-5
			20.32 [.800]	24.02 [.946]	9	TDS09SGNNTU04	2319747-4
			17.78 [.700]	21.48 [.846]	8	TDS08SGNNTU04	2319747-3
			10.16 [.400]	13.86 [.546]	5	TDS05SGNNTU04	2319747-2
			7.62 [.300]	11.32 [.446]	4	TDS04SGNNTU04	2319747-1

TOP TAPE SEAL	ACTUATOR	NOTE	B	A	No OF POSITION	TE DESCRIPTIVE PART NUMBER	TE PART NUMBER
			DIM				
YES	RECESSED	2	22.86 [.900]	26.56 [1.046]	10	TDS10SGRSTU04	1-2319747-5
			20.32 [.800]	24.02 [.946]	9	TDS09SGRSTU04	1-2319747-4
			17.78 [.700]	21.48 [.846]	8	TDS08SGRSTU04	1-2319747-3
			10.16 [.400]	13.86 [.546]	5	TDS05SGRSTU04	1-2319747-2
			7.62 [.300]	11.32 [.446]	4	TDS04SGRSTU04	1-2319747-1
			22.86 [.900]	26.56 [1.046]	10	TDS10SGRNTR04	2-2319747-5
NO	RAISED	3	20.32 [.800]	24.02 [.946]	9	TDS09SGRNTR04	2-2319747-4
			17.78 [.700]	21.48 [.846]	8	TDS08SGRNTR04	2-2319747-3
			10.16 [.400]	13.86 [.546]	5	TDS05SGRNTR04	2-2319747-2
			7.62 [.300]	11.32 [.446]	4	TDS04SGRNTR04	2-2319747-1
			22.86 [.900]	26.56 [1.046]	10	TDS10SGRNTU04	1-2319747-0
			20.32 [.800]	24.02 [.946]	9	TDS09SGRNTU04	2319747-9
			17.78 [.700]	21.48 [.846]	8	TDS08SGRNTU04	2319747-8
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			22.86 [.900]	26.56 [1.046]	10	TDS10SGNNTU04	2319747-5
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			17.78 [.700]	21.48 [.846]	8	TDS08SGNNTU04	2319747-3
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			7.62 [.300]	11.32 [.446]	4	TDS04SGNNTU04	2319747-1

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DWN 29MAY2017 SHIVAKUMAR S S		TE Connectivity	
CHK 29MAY2017 ALEXANDER SHARPE		NAME	
APVD 29MAY2017 ALEXANDER SHARPE		TRI-STATE DIP SWITCHES	
PRODUCT SPEC		-	
APPLICATION SPEC	-		
MATERIAL	SIZE A2	CAGE CODE 00779	DRAWING NO C-2319747
FINISH	WEIGHT	SCALE 8:1	SHEET 3 of 4
CUSTOMER DRAWING		REV A	RESTRICTED TO

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
-	-	SEE SHEET 1	-	-

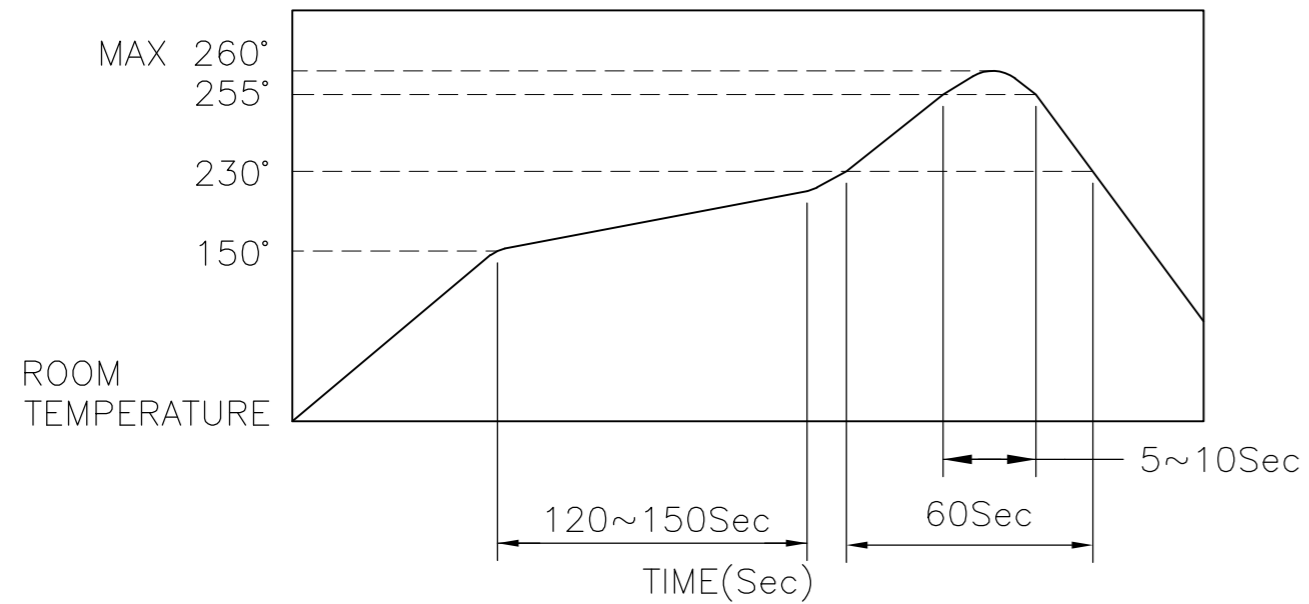
**SOLDERING CONDITIONS:**

THE CONDITIONS MENTIONED BELOW IS THE TEMPERATURE ON THE CU FOIL OF THE P.C.B SURFACE. DO NOT ALLOW THE SWITCH'S SURFACE TEMPERATURE TO EXCEED 260°C.

**MANUAL SOLDERING**

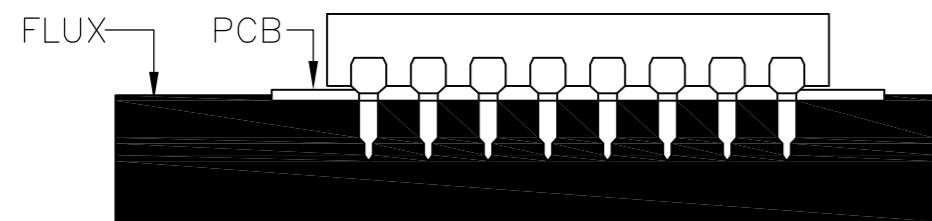
SOLDERING TEMPERATURE	MAX. 350°C.
CONTINUOUS SOLDERING TIME	MAX. 5 SECONDS.

**REFLOW SOLDERING**



**HANDLING PRECAUTIONS**

- CARE SHOULD BE EXERCISED SO THAT FLUX FROM THE UPPER PART OF THE PRINTED CIRCUIT BOARD DOES NOT ADHERE TO THE SWITCH.
- DON'T CLEAN THE SWITCH BODY EXCEPT WITH TOP TAPE SEALED TYPE, WHICH CAN ONLY SPRAY OF CLEANING METHOD FROM TOP OF S/W.
- ENSURE FLUX DOES NOT RISE ABOVE THE TOP SURFACE OF THE PCB.



**SPECIFICATIONS:**

**MATERIALS:**

BASE: PA (HIGH-TEMP. NYLON) UL94V-0  
 COVER: PA (HIGH-TEMP. NYLON) UL94V-0  
 ACTUATOR: LCP UL94V-0  
 CONTACT: COPPER ALLOY, GOLD (in contact area)  
 OVER NICKEL PLATE  
 TERMINAL: BRASS ALLOY, GOLD PLATE  
 TAPE: POLYAMIDE.

**ELECTRICAL:**

CONTACT RATING: NON-SWITCHING 100mA @ 50 VDC.  
 SWITCHING: 25mA @ 24 VDC.  
 INITIAL CONTACT RESISTANCE: 100mΩ MAX. @ 2 VDC. 10mA.  
 INSULATION RESISTANCE: 100 MEGOHMS MIN. @ 500 VDC,  
 1 MINUTE +/- 5 SECONDS.  
 DIELECTRIC STRENGTH: 500 VAC (50 OR 60 HZ), 1 MINUTE.  
 DURABILITY: 2,000 CYCLES.  
 CAPACITANCE: 5 pF MAX @ 1 MHz +/- 10 KHz.

**MECHANICAL:**

OPERATING FORCE: 1000gf MAX.

**ENVIRONMENTAL:**

OPERATING TEMPERATURE: -20°C TO +85°C.  
 STORAGE TEMPERATURE: -40°C TO +85°C.  
 SOLDER HEAT RESISTANCE PER 109-201, CONDITION B.  
 SOLDERABILITY PER JIS C 0050 & JIS C 0053.

**NOTES:**

1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27 JAN 2003 (ROHS).



TUBE PACKAGING.



TAPE AND REEL PACKAGING.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 29MAY2017 SHIVAKUMAR S S																				
DIMENSIONS: mm[INCHES]		CHK 29MAY2017 ALEXANDER SHARPE																				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD 29MAY2017 ALEXANDER SHARPE	NAME TRI-STATE DIP SWITCHES																			
<table border="1"> <tr><td>0 PLC</td><td>±</td><td>-</td></tr> <tr><td>1 PLC</td><td>±</td><td>-</td></tr> <tr><td>2 PLC</td><td>±</td><td>0.20[.008]</td></tr> <tr><td>3 PLC</td><td>±</td><td>-</td></tr> <tr><td>4 PLC</td><td>±</td><td>-</td></tr> <tr><td>ANGLES</td><td>±</td><td>-</td></tr> </table>		0 PLC	±	-	1 PLC	±	-	2 PLC	±	0.20[.008]	3 PLC	±	-	4 PLC	±	-	ANGLES	±	-	PRODUCT SPEC -	SIZE A2	CAGE CODE 00779
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MATERIAL		FINISH	DRAWING NO C=2319747	RESTRICTED TO -																		
		WEIGHT	SCALE 8:1 SHEET 4 OF 4 REV A																			
		CUSTOMER DRAWING																				