PTS845 Series

4.5x3.4mm SMT Side Actuated Tactile Switch



Description

PTS845 series, the small and compact size side actuated tactile switch, has a size of only 4.5 x 3.4 x 3.3 mm. With the small and compact size, the switch allows designers to either free up space in PCB to add additional functionality, or reduce the overall size of their design. 0.8N, 1.6N and 2.6N operating forces, which are the most common versions used in the market, are available. Bracket peg design of the switch provides premium quality and performance. PTS845 tactile switch accommodates a wide range of applications in the high-end consumer wearable and medical device markets, where compact solution is required.

Features & Benefits

- 4.5 x 3.4 x 3.3 mm package
- SMT termination
- Side actuated with bracket peg design
- 0.8N, 1.6N & 2.6N versions
- Up to 1,000,000 life cycles

Applications

- Mobile radios
- Dash cameras
- Gaming peripherals
- Home automation

Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST NO
Terminals	SMT Termination
Travel	0.2mm ± 0.1mm
Life	100,000 & 1,000,000 cycles

Electrical Characteristics

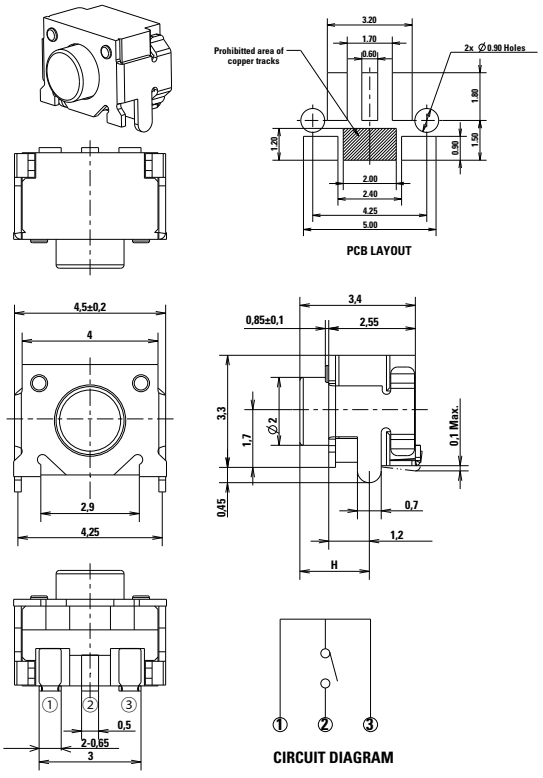
Max. Voltage	12 VDC
Max. Current DC	50 mA
Dielectric Voltage	250V AC min
Contact Resistance	500 mΩ
Insulation Resistance	100 MΩ min.

Environmental Characteristics

Operating Temperature	-40˚C to 90˚C
Storage Temperature	-30˚C to 80˚C

Dimensions (mm)

With peg

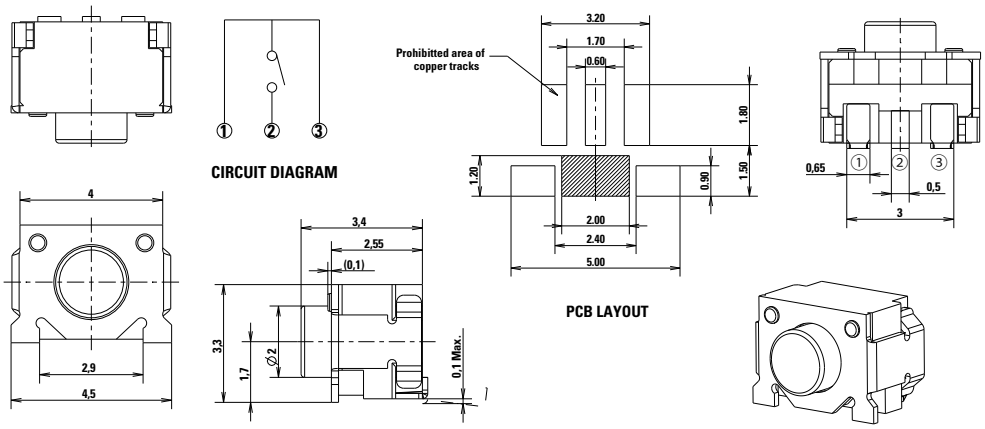


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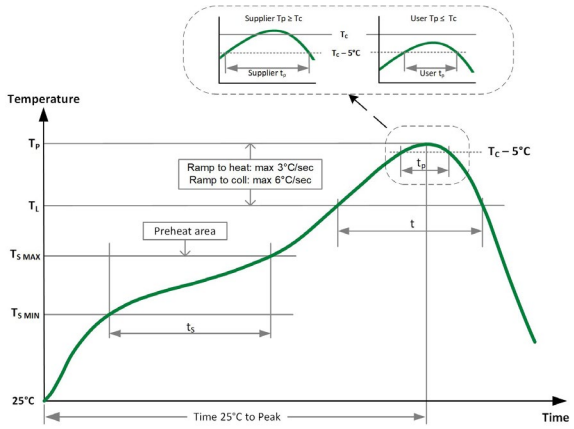
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PTS845 Series
4.5x3.4mm SMT Side Actuated Tactile Switch

Without peg



Soldering Profile



Tp	Peak package body temperature 260°C
TL	Liquidous temperature 217°C
Ts	Preheat temperature 150-200°C
ts	Preheat time 60-120s
tp	30s
tL	60-150s

Soldering: This component is suited to the following methods:

Infrared Reflow Soldering in accordance with IEC61760-1

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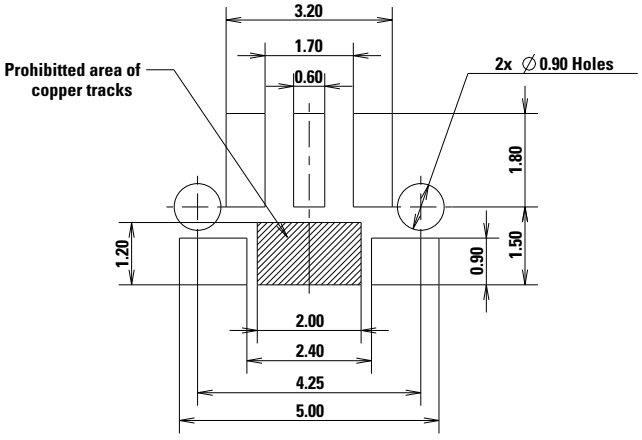
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PTS845 Series

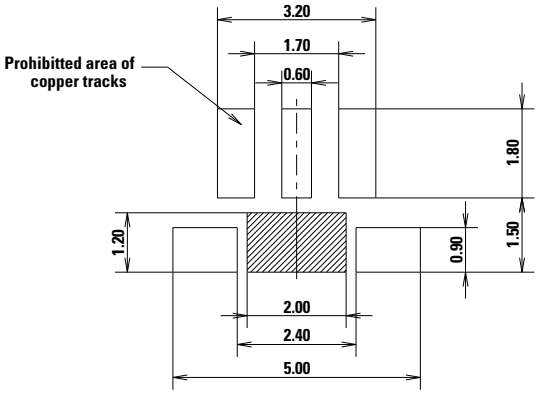
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Pad Layout Dimensions (mm)

With peg

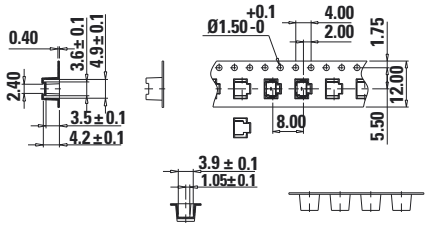


Without peg

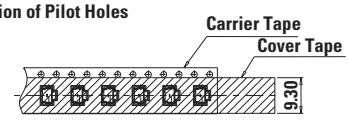


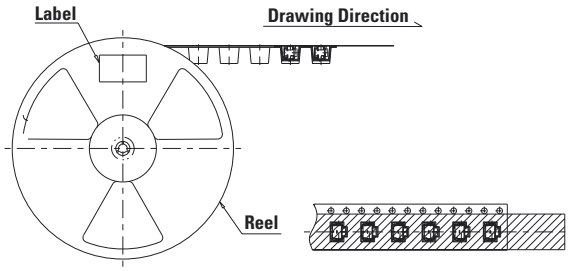
Packaging Dimensions (mm)

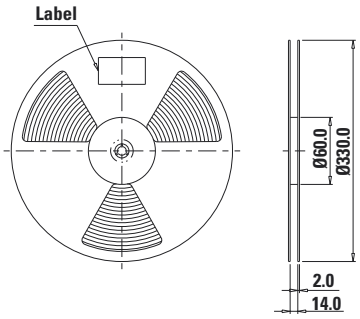
The Dimension of Carrier Tape, Cover Tape and Reel



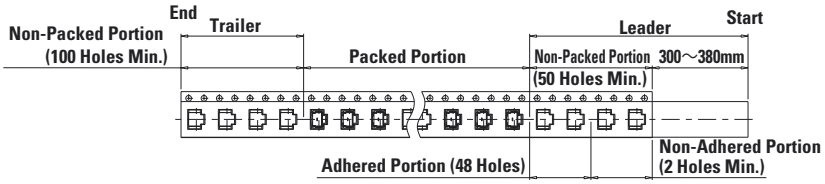
The Direction of Pilot Holes

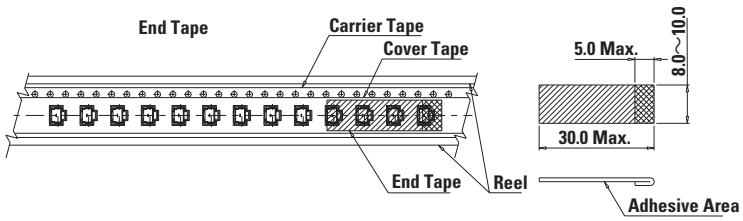






The Specification for Packaging





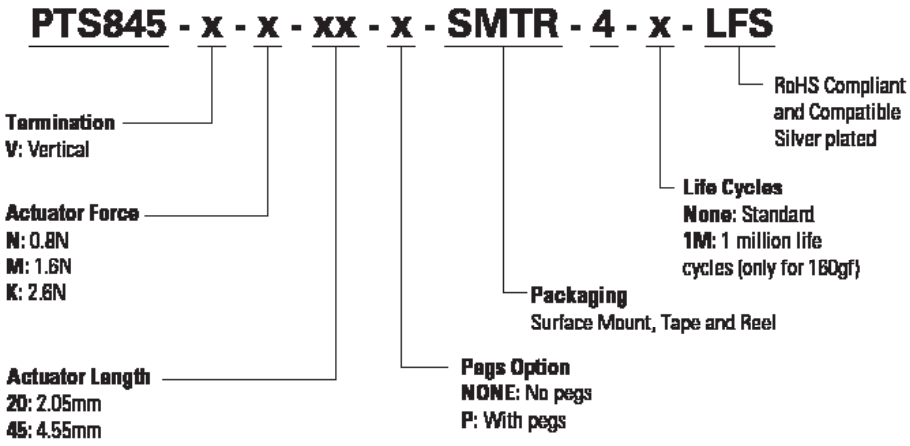
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Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category. For any part number different from those listed below, please consult your local representative.



Mechanical Characteristics

Supply Status	LITTELFUSE Orderable Part Number	LITTELFUSE Orderable Part Number	Contact & Terminals Plating	Terminals	Pegs Option	Operating Force Fa (Newtons)	Operating Life (Operations)	Electrical Travel (mm)	Actuator Length H (mm)	Actuator Color
✓	Y97PS18B5ACFP	PTS845VK20PSMTR4 LFS	Silver	SMT	Y	2.6 +/- 0.5	100,000	0.2 ± 0.1	2.05	Black
✓	Y97PS18B2ACFP	PTS845VM20PSMTR4 LFS	Silver	SMT	Y	1.6 +/- 0.5	100,000	0.2 ± 0.1	2.05	Ivory
✓	G01615933	PTS845VM20PSMTR41M LFS	Silver	SMT	Y	1.6 +/- 0.5	1,000,000	0.2 ± 0.1	2.05	Yellow Green
✓	G01637708	PTS845VM20SMTR4 LFS	Silver	SMT	N	1.6 +/- 0.5	100,000	0.2 ± 0.1	2.05	Ivory
✓	G01138608	PTS845VM20SMTR41M LFS	Silver	SMT	N	1.6 +/- 0.5	1,000,000	0.2 ± 0.1	2.05	Yellow Green
✓	G01377109	PTS845VM45PSMTR4 LFS	Silver	SMT	Y	1.6 +/- 0.5	100,000	0.2 ± 0.1	4.55	Ivory
✓	Y97PS18B0ACFP	PTS845VN20PSMTR4 LFS	Silver	SMT	Y	0.8 +/- 0.4	100,000	0.2 ± 0.1	2.05	Grey

Notes:
Supply status:
✓: Available for ordering

Liability Limitation

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipement. Please contact customer service for the contractual specification package.

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