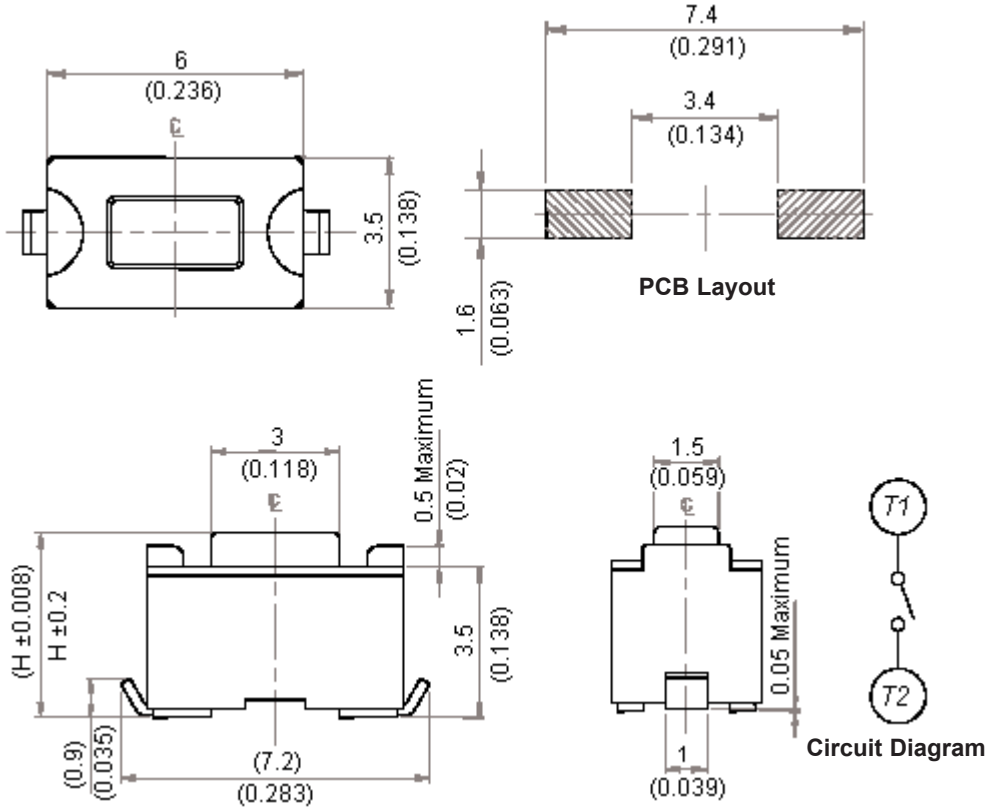
multicomp

PART NO.

DTSM-32S-B

REVISIONS									
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	SID	04/5/12	AMU	04/5/12		18/5/12



General Tolerance Maximum ±0.2 mm

Dimensions : Millimetres (Inches)

Features:

- Sharp click feel with a positive tactile feedback. Due to small movement distance (stroke), user experiences distinct sensation when the switch clicks into place
- Ultra miniature and light weight structure suitable for high density mounting Economic but high reliability
- Insert moulding in the contact with special treatment prevents flux build-up during soldering and permits auto-dipping

Specifications:

Materials

Cover	: Stainless steel
Base	: Nylon or PPA high temperature thermoplastic Colour : Black
Stem	: Nylon high temperature thermoplastic Colour : Salmon (320 gf)
Contact Disc	: Stainless steel with silver cladding
Terminal	: Brass with silver cladding

Mechanical

Operation force	: 320 ±80 gf salmon (S)
Stroke	: 0.25 (+0.2 / -0.1 mm)
Operating Temperature Range	: -25°C to +70°C
Storage Temperature Range	: -30°C to +80°C
Vibration Test	: MIL-STD-202F method 201A
Frequency	: 10 - 55 - 10 Hz / 1 minute
Directions	: X, Y, Z three mutually perpendicular directions
Time	: 2 hours each direction
High reliability	

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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DRAWING TITLE: **Tact Switch**

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000250	233660_2_DWG	A

SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 OF 3

Mechanical

Shock Test : MIL-STD-202F Method 213B
Condition A
Gravity : 50 G (peak value), 11 milliseconds
Direction and times : 6 sides and 3 times in each direction
High reliability

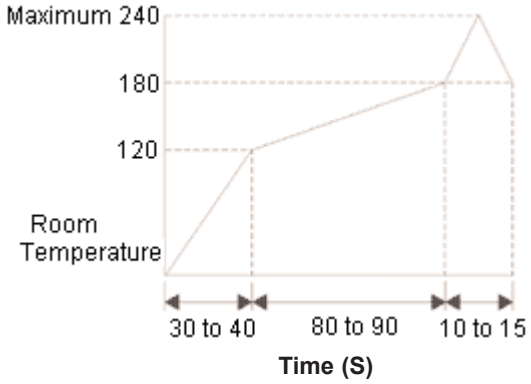
Electrical

Electrical Life : 50,000 cycles for 320 gf
Contact Resistance : 100mΩ maximum
Insulation Resistance : 100 MΩ minimum at 500 V dc
Dielectric Strength : 250 V ac / 1 minute
Contact Arrangement : 1 pole 1 throw

Soldering Process

Hand Soldering : Use a soldering iron of 30 watts, controlled at 608°F (320°C) approximately 2 seconds while applying solder
Reflow Soldering : When applying reflow soldering, the peak temperature or the reflow oven should be set to 240°C maximum condition for soldering (Reflow and Non-washable type)
Wave Soldering : Recommended solder temperature at 500°F (260°C) maximum. 5 seconds, for through hole type. Subject to PCB 1.6 mm thickness

Reflow Temperature Profile



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Specification Table

Current Rating at 12 V dc (mA)	Part Number
50	DTSM-32S-B

Part Number Explanation:

DTS	M	-	3	2	S	-	B
Switch	Mounting Type		Product Size	Dimension H	Colour of Stem for Operating Force		Package

Switch : Tactile switch
Mounting Type : M = Surface Mounting Type
Product Size : 3 = 3.5 × 6
Dimension H : 2 = 5 mm
Colour of the Stem Operating Force : S = Salmon, 320 gf
Package : B = Tube Package

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