

## Sense

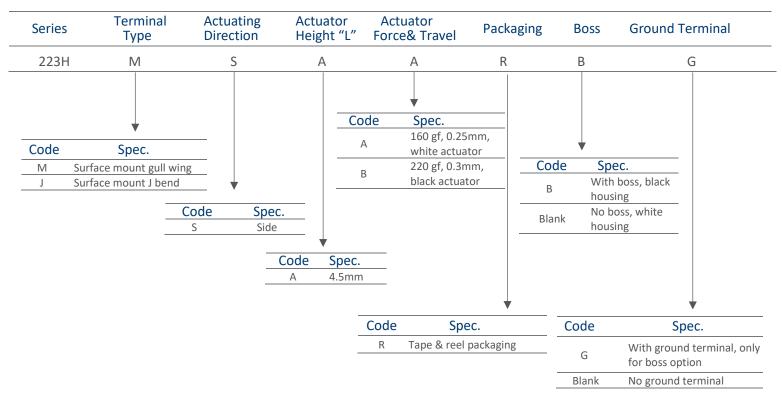
# Series 223H

# 4.7x3.5mm Compact Tactile Switch

- Surface mount gull-wing and J bend terminal configurations
- Compatible with IR reflow and manual soldering



## **Ordering Information**



Notes: Contact CTS for other common features not listed.





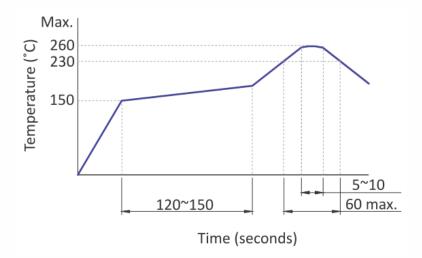
## **Electrical Specifications**

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			100	milliohms
Insulation Resistance	Between insulated terminals	100		Megohms
Dielectric Strength	1 minute between adjacent switches		250	VAC
Actuation Life	160 gf 220 gf		200,000 100,000	cycles
Nonswitching Rating			50 or 12	mA or VDC

#### **Mechanical and Environmental**

Soldering	Maximum reflow temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds			
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU			
Operating Force	160±50 gf 220±50 gf			
Actuator Strength	3 Kgf maximum			
Travel	$0.25 \pm 0.1 \text{ mm} $ $0.3^{+0.1}_{-0.2} \text{ mm}$			
Packaging	Standard tape and reel packaging			
Operating Temperature Range	-40°C to +85°C			
Storage Temperature Range	-40°C to +85°C			

### **Soldering Profile**





## **Mechanical Specifications**

Figure 1 –223HM... Surface Mount Gull Wing, Without Ground Terminal

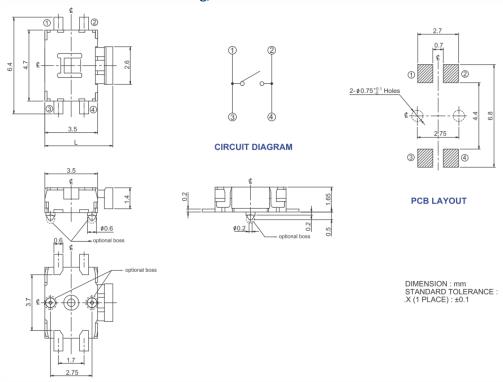
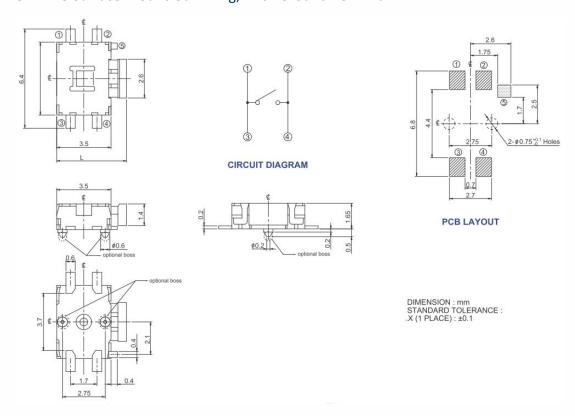


Figure 2 –223HM...G Surface Mount Gull Wing, With Ground Terminal



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Figure 3 –223HJ... Surface Mount J Bend, Without Ground Terminal

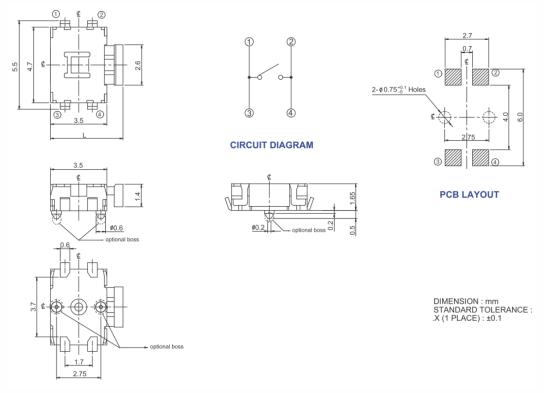
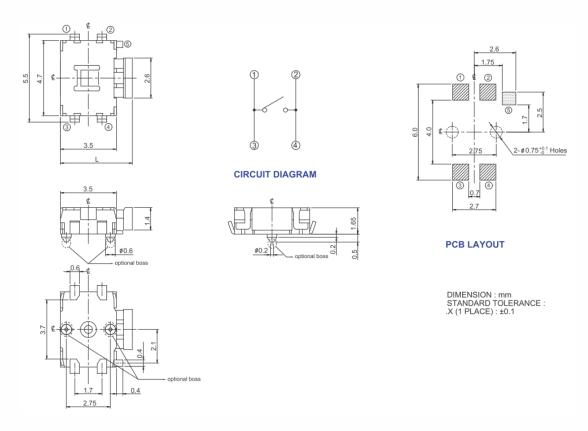


Figure 4 –223HJ...G Surface Mount J Bend, With Ground Terminal



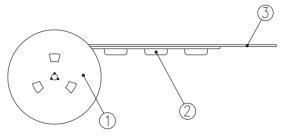


### Packing: Tape and Reel

## Surface Mount Gull Wing/J Bend

#### The packing specifications:

#### Structure and materials:



3	COVER TAPE	POLYESTER
2	CARRIER TAPE	POLYSTYRENE
1	REEL	POLYSTYRENE
NO.	PARTS NAME	MATERIALS

- 1. Packing quantity: 3,300 pcs/reel
- 2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
- 3. Shortage less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
- 4. Stripping strength of cover tape is between 10 gf to 70 gf and stripping angle should be within  $165^{\circ}180^{\circ}$ .
- 5. The product in the pocket of carrier tape should be placed in a specified correct position.
- 6. Tape and reel per EIA-481
- 7. Dimensions:

