

RoHS Compliant

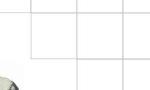


Series 223D

5.6x4.0mm Compact Tactile Switch

- Surface mount gull-wing terminal configurations
- Compatible with IR reflow and manual soldering
- Variety of actuator height options

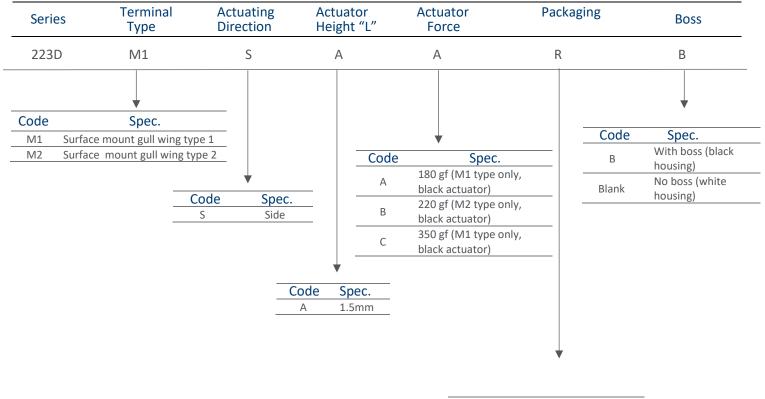








Ordering Information



Code	Spec.	
R	Tape & reel packaging	

Notes: Contact CTS for other common features not listed.

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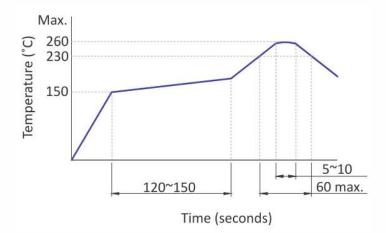
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			500	milliohms
Insulation Resistance	Between insulated terminals	100		Megohms
Dielectric Strength	1 minute between adjacent switches		250	VAC
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 and 2015/863/EU	
Operating Force	180 ^{±80} ₄₀ gf 220 [±] 50 gf 350 [±] 80 gf	
Actuation Life	50,000 cycles	
Actuator Strength	3 Kgf maximum	
Travel	0.2±0.12 mm	
Packaging	Standard tape and reel packaging	
Operating Temperature	-40°C to +85°C	
Range		
Storage Temperature Range	-40°C to +85°C	

Soldering Profile





Mechanical Specifications

Figure 1 – 223DM1SA...RB, 223DM1SA...R, Surface Mount Gull Wing Type1

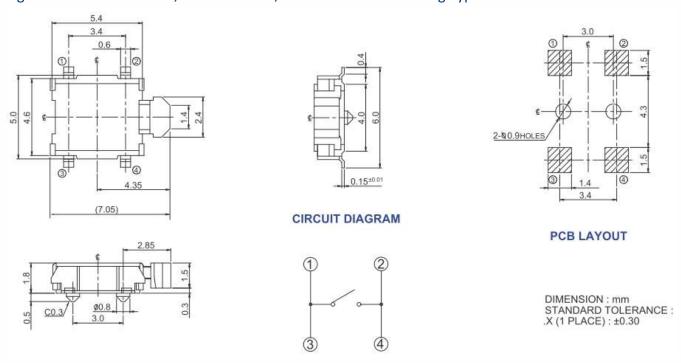
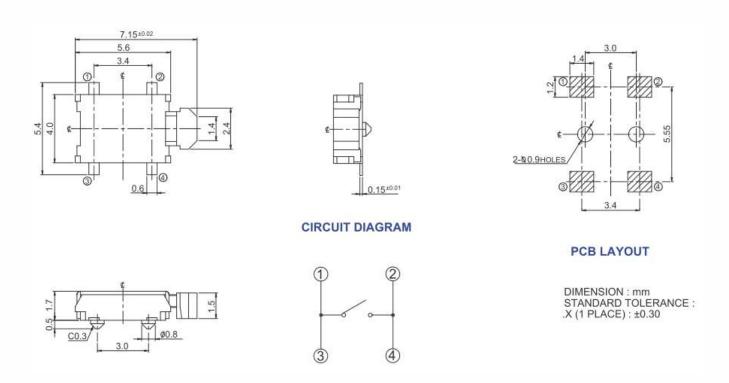


Figure 2 – 223DM2SA...RB, 223DM2SA...R, Surface Mount Gull Wing Type2



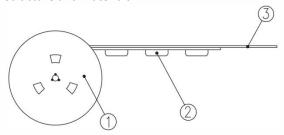


Packing: Tape and Reel

223DM1..., Surface Mount Gull Wing Type 1

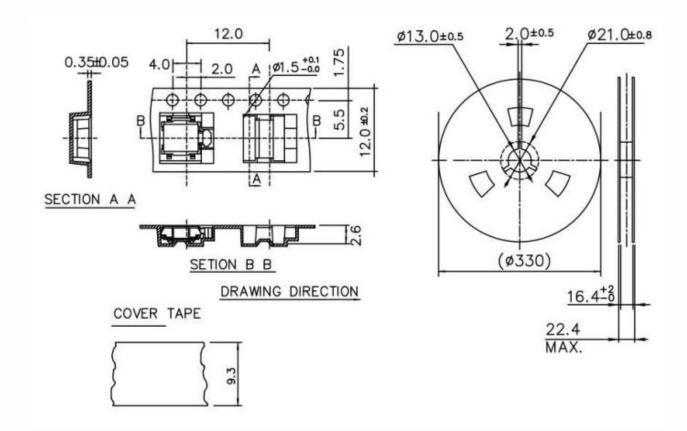
The packing specifications:

Structure and materials:



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

- 1. Packing quantity: 2,000 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 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:

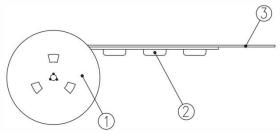




223DM2..., Surface Mount Gull Wing Type 2

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° 180°.
- 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:

