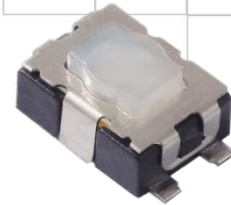




# Series 223J

## 4.2 x 2.8mm IP67 Rated Tactile Switch

- Surface mount gull wing terminal configuration
- Compatible with IR reflow, and manual soldering
- Variety of operating force options
- IP67 protection
- Long Life
- Excellent tactile feel



### Ordering Information

Series	Terminal Type	Actuating Direction	Actuator Height "L"	Actuation Force	Packaging	Ground Terminal																								
223J	M	V	A	A	R	G																								
<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>M</td><td>Surface mount gull wing</td></tr></table>		Code	Spec.	M	Surface mount gull wing	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>V</td><td>Vertical</td></tr></table>	Code	Spec.	V	Vertical	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>A</td><td>1.9mm</td></tr></table>	Code	Spec.	A	1.9mm	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>A</td><td>300 gf, nature</td></tr><tr><td>B</td><td>200 gf, black</td></tr></table>	Code	Spec.	A	300 gf, nature	B	200 gf, black	<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>Blank</td><td>None</td></tr><tr><td>G</td><td>With ground terminal</td></tr></table>		Code	Spec.	Blank	None	G	With ground terminal
Code	Spec.																													
M	Surface mount gull wing																													
Code	Spec.																													
V	Vertical																													
Code	Spec.																													
A	1.9mm																													
Code	Spec.																													
A	300 gf, nature																													
B	200 gf, black																													
Code	Spec.																													
Blank	None																													
G	With ground terminal																													
					<table><tr><th>Code</th><th>Spec.</th></tr><tr><td>R</td><td>Tape &amp; reel packaging</td></tr></table>	Code	Spec.	R	Tape & reel packaging																					
Code	Spec.																													
R	Tape & reel packaging																													

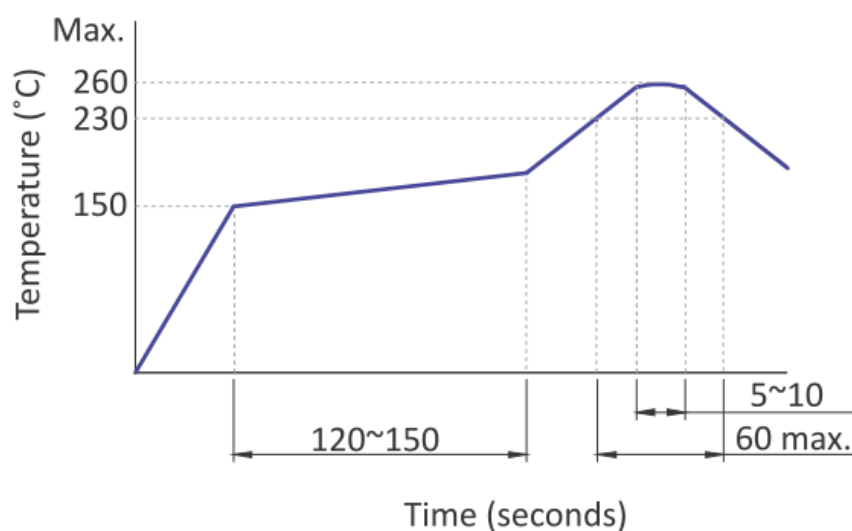
### Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			100	milliohms
Insulation Resistance	Between insulated terminals	1000		megohms
Dielectric Strength	250 VDC between adjacent switches		1	minute
Nonswitching Rating			50 or 32	mA or VDC

### Mechanical and Environmental

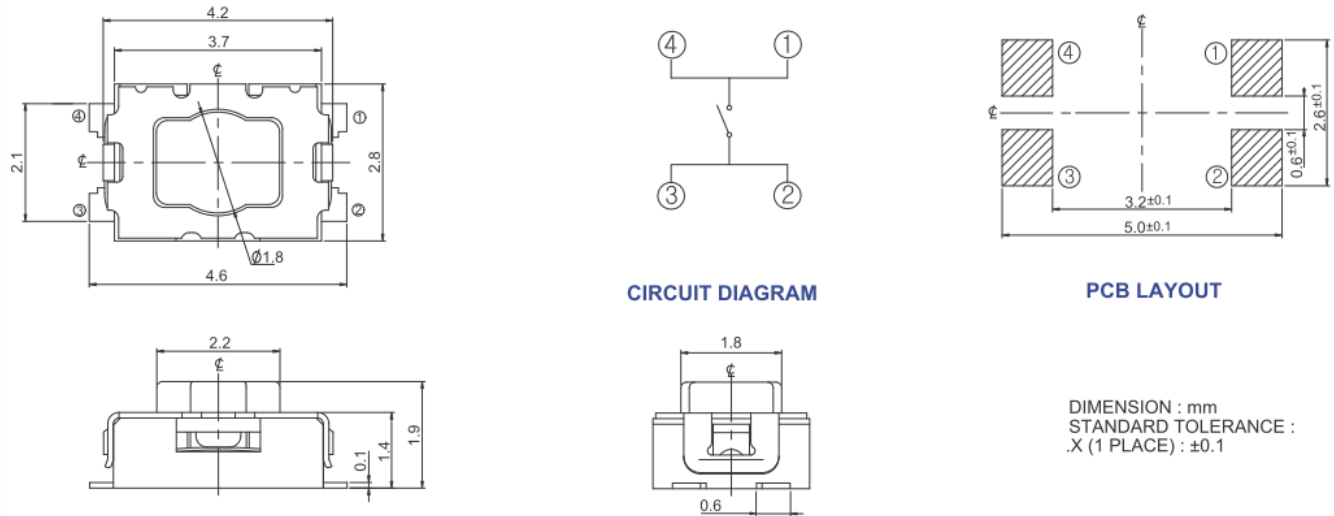
Soldering	Maximum reflow temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU
Operating Force	200±50 gf 300±75 gf
Actuation Life	200 gf: 200,000 cycles 300 gf: 150,000 cycles
Actuator Strength	3 Kgf maximum
Travel	0.25±0.1mm
Packaging	Standard tape and reel packaging
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +85°C
Waterproof Grade	IP67

### Soldering Profile

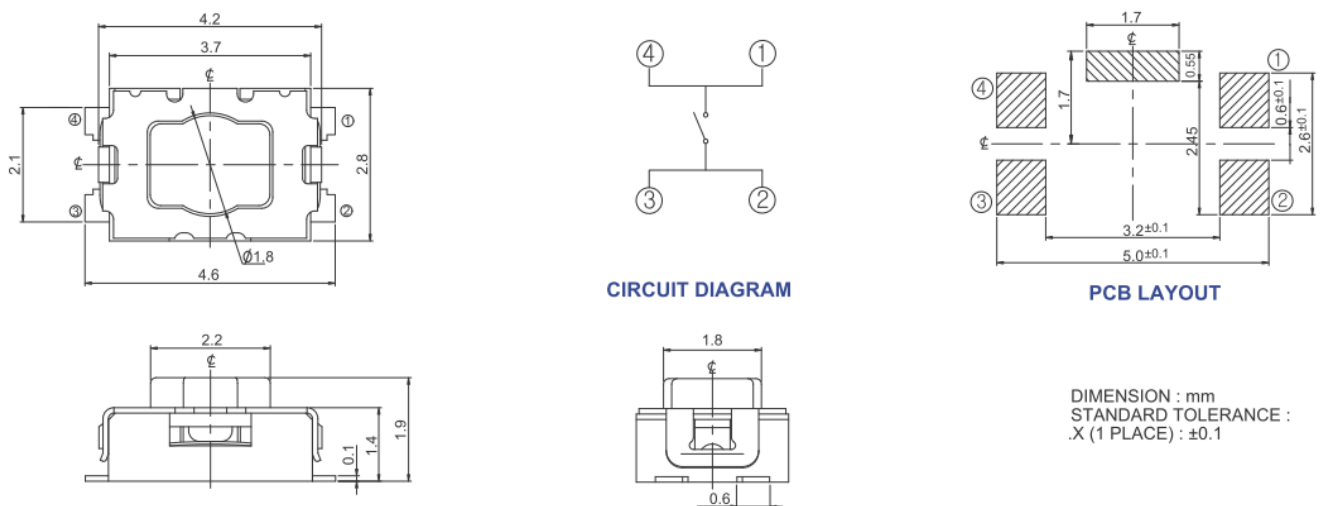


## Mechanical Specifications

**Figure 1 – 223JMA..., Surface Mount Gull Wing, Actuator Height 1.9mm, No Ground Terminal**



**Figure 2 – 223JMA...G, Surface Mount Gull Wing, Actuator Height 1.9mm, With Ground Terminal**

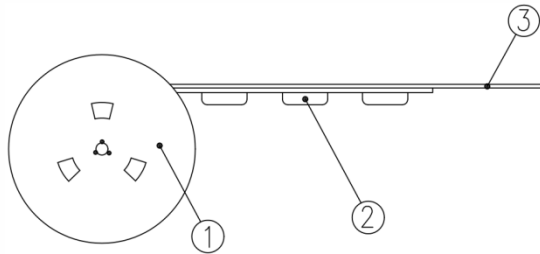


### Packing: Tape and Reel

Surface Mount Gull Wing, Actuator Height 1.9mm

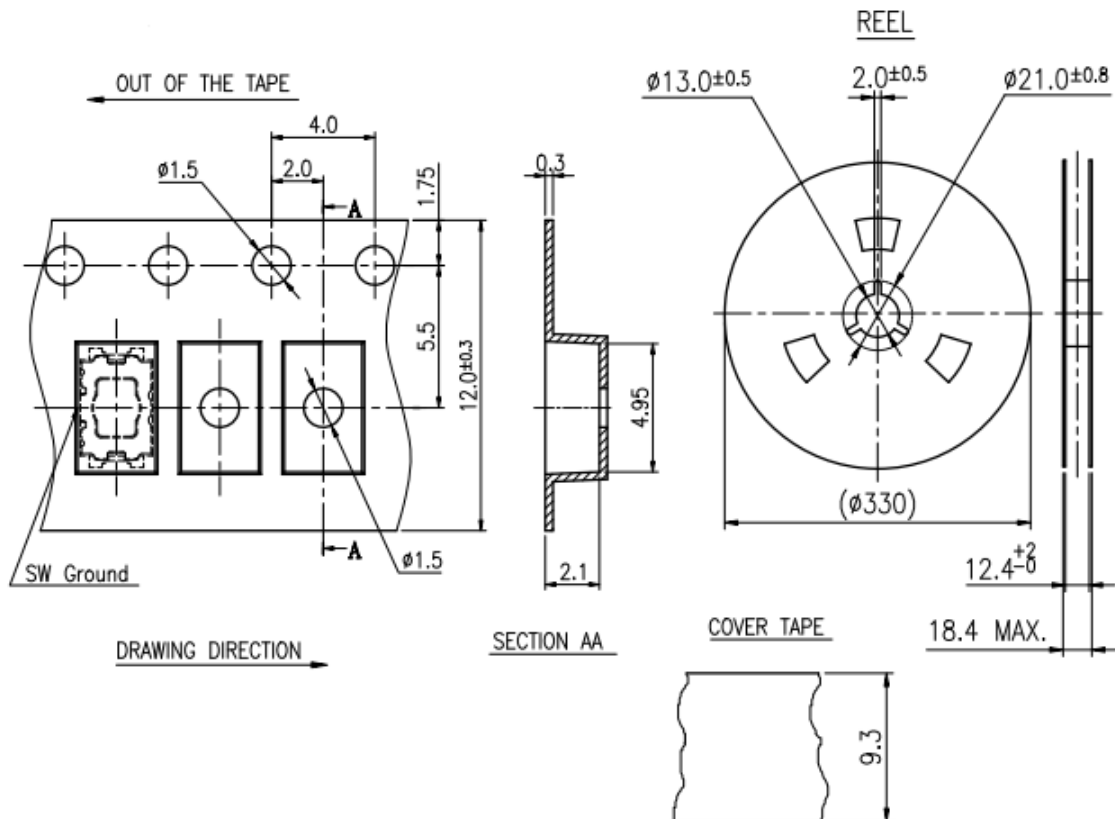
The packing specifications:

1. Structure and materials:



No	PART NAME	MATERIAL
①	REEL	POLYSTYRENE
②	CARRIER TAPE	POLYSTYRENE
③	COVER TAPE	POLYESTER

- Packing quantity: 7,000 pcs/reel
- More than 10 empty pockets should remain at each end of the carrier tape for each reel.
- Shortage of less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
- Stripping strength of cover tape is between 10 gf to 130 gf and stripping angle should be within 165°~180°.
- The product in the pocket of carrier tape should be placed in a specified correct position.
- Tape and reel per EIA-481.
- Dimensions:



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS:

[223JMVAAR](#) [223JMVAARG](#) [223JMVABR](#) [223JMVABRG](#)