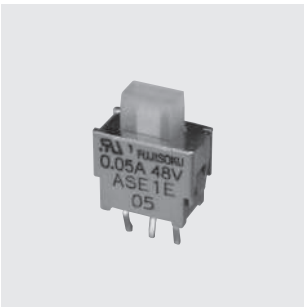
ASE

Washable

RoHS Compliant

Hyper-miniature Slide Switches

UL



■ Features

1. **High Contact Reliability**
   Twin-contact clip mechanism for high contact reliability
2. **Immersion washable type**
3. **Gold-plated contacts suitable for low current applications**
4. **For PC board mounting**
5. **Improved operability**
   The independent detent structure provides a light operating touch.
6. **UL-recognized**

■ Specifications

Rating	0.4VA AC/DC	Voltage range	20mV～60V
		Current range	1μA～50mA
	Max.	50mA 60VAC/DC	
	Min.	1μA 20mVAC/DC	
	UL	48VAC/DC 50mA	
Initial contact resistance		50mΩ max. (1.5mA 200μVAC)	
Dielectric strength		250VAC 1 minute	
Initial insulation resistance		500MΩ min. (500VDC)	
Electrical life		10,000 cycles at max. rating.	
		50,000 cycles at min. rating or 0.4VA	
Operating force		0.69～4.9N	
Operating temperature range		−20°C～+85°C	
Storage temperature range		−40°C～+85°C	

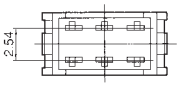
■ Part Numbering

A SE 2 D − 2 M − 10 − Z

Series code

Code	Type
SE	Slide type

Fig.	Numberof poles
1	1 pole
2	2 poles



(Compact type)
Terminal line for double poles are 2.54mm (0.1")

Code		Switching function
D	N	ON — ON
E	—	ON — OFF — ON

Distance between two terminal rows : 5.08mm (0.2")

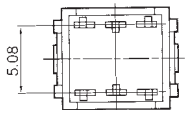


Fig.	Terminal styles
2	PC terminal
5	Right angle (0.2inch pitch)
6	Right angle (0.3inch pitch)

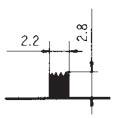
Code	Actuator shape
M	Standard

Clip mechanism

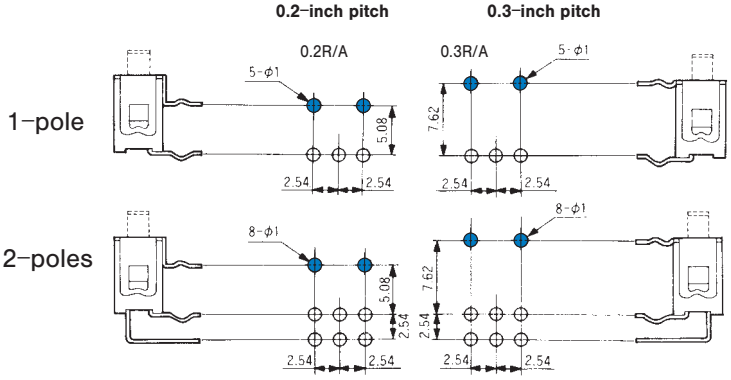
Note : Some model names may not be registered. Please refer to the listed products in this series.

■ Actuator Shape

Standard(M)

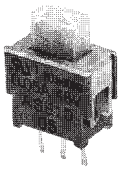


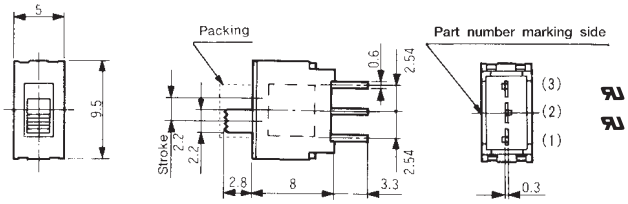
■ Right Angle Terminals



SPDT

PC





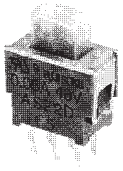
Part No. \ Switching function	Viewed from part No. marking side		
ASE1D-2M-10-Z	ON	–	ON
☆ASE1E-2M-10-Z	ON	OFF	ON
Connecting terminals	2–1	–	2–3

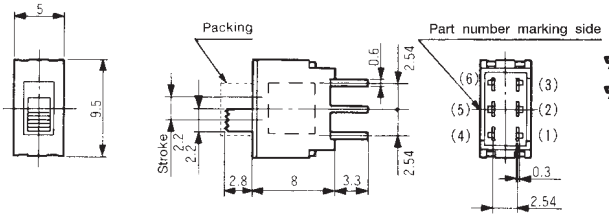
Terminal numbers are not shown on the switch.

DPDT

PC

Distance between two terminal rows : 2.54 mm





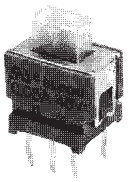
Part No. \ Switching function	Viewed from part No. marking side		
ASE2D-2M-10-Z	ON	–	ON
★ASE2E-2M-10-Z	ON	OFF	ON
Connecting terminals	2–1 5–4	–	2–3 5–6

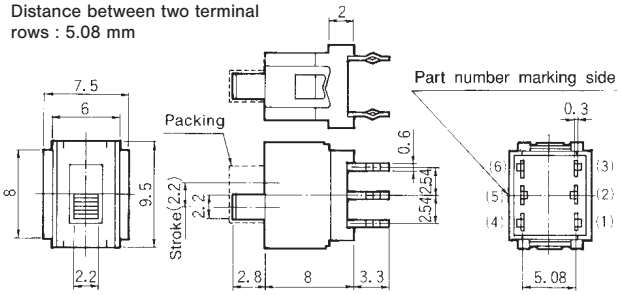
Terminal numbers are not shown on the switch.

DPDT

PC

Distance between two terminal rows : 5.08 mm





Part No. \ Switching function	Viewed from part No. marking side		
☆ASE2N-2M-10-Z	ON	–	ON
Connecting terminals	2–1 5–4	–	2–3 5–6

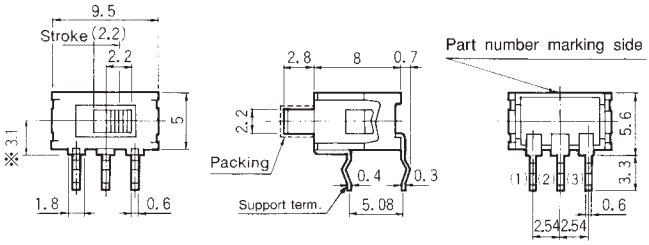
Terminal numbers are not shown on the switch.

SPDT

0.2R/A

Mounting height : 3.1 mm





Part No. \ Switching function	Viewed from part No. marking side		
ASE1D-5M-10-Z	ON	–	ON
Connecting terminals	2–1	–	2–3

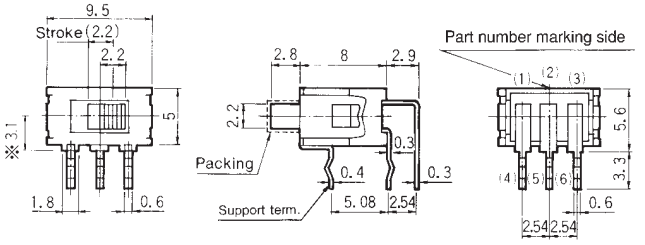
Terminal numbers are not shown on the switch.

DPDT

0.2R/A

Mounting height : 3.1 mm





Part No. \ Switching function	Viewed from part No. marking side		
ASE2D-5M-10-Z	ON	–	ON
Connecting terminals	2–1 5–4	–	2–3 5–6

Terminal numbers are not shown on the switch.

★ : Made to order products.
☆ : Semi-standard products.

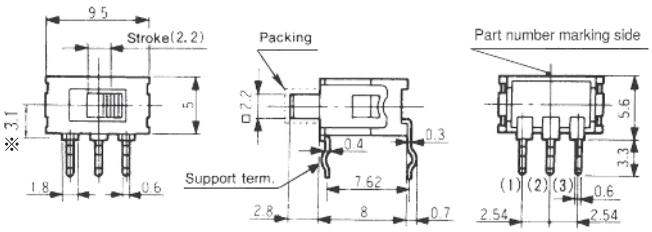
●The actuator is sealed with a white-colored packing. Remove the packing with tweezers after the washing process.

SPDT

0.3R/A

Mounting height : 3.1 mm





Switching function / Part No.	Viewed from part No. marking side		
ASE1D-6M-10-Z	ON	–	ON
Connecting terminals	2–1	–	2–3

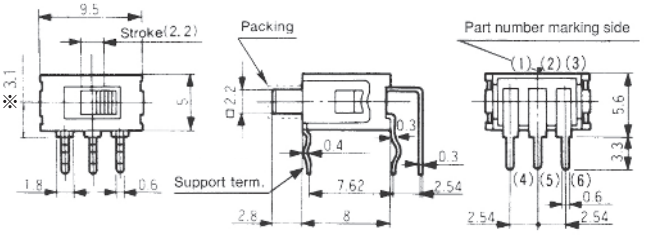
Terminal numbers are not shown on the switch.

DPDT

0.3R/A

Mounting height : 3.1 mm





Switching function / Part No.	Viewed from part No. marking side		
☆ASE2D-6M-10-Z	ON	–	ON
Connecting terminals	2–1 5–4	–	2–3 5–6

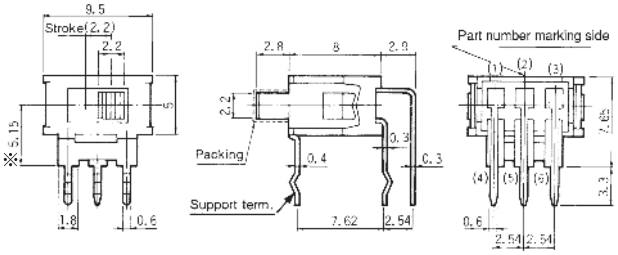
Terminal numbers are not shown on the switch.

DPDT

0.3R/A

Mounting height : 5.15 mm

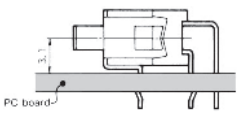
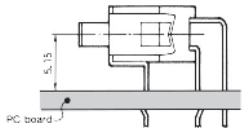




Switching function / Part No.	Viewed from part No. marking side		
★ASE2N-6M-10-Z	ON	–	ON
Connecting terminals	2–1 5–4	–	2–3 5–6

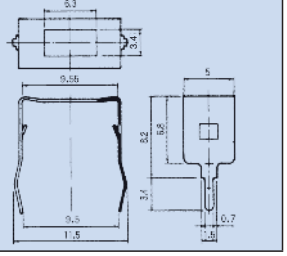
Terminal numbers are not shown on the switch.

■ Mounting Height

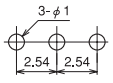
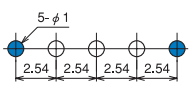
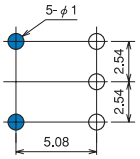
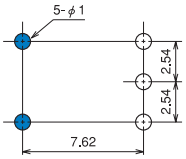
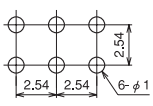
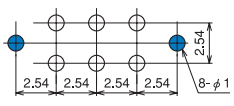
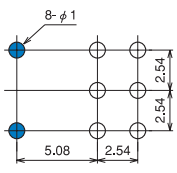
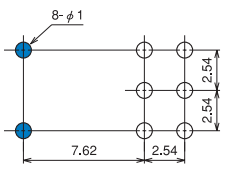
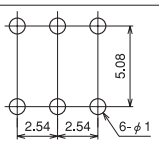
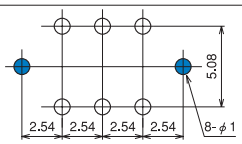
Switching function	D·E	N
Mounting		

■Optional Accessories

《Supplied separately》

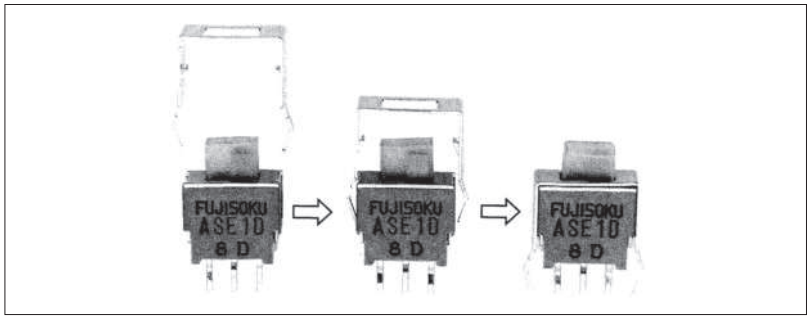
Part Name	Bracket
Part No.	**140000640324**
Dimensions	

■PC Hole Layouts

Series	PC Straight terminal		Right Angle terminal	
	Without bracket	With bracket	0.2inch pitch	0.3inch pitch
ASE1D **ASE1E**				
ASE2D **ASE2E**				
ASE2N				

: Optional Accessories. ★ : Made to order products. ☆ : Semi-standard products.

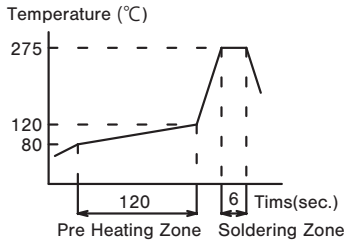
■ Bracket Installation Procedure



■Handling Precautions

1.Soldering Specifications

(1)Manual Soldering
Device : Soldering iron
380℃, Max.; 3 seconds, Max.
(2)Auto Soldering
Device : Jet wave type or dip type
275℃, Max.; 6 seconds, Max.
・ Pre-heating should be done at temperatures ranging from 80℃ to 120℃ and within 120 sec.



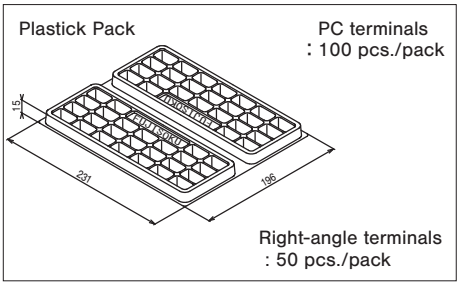
2. Flux Cleaning

(1)Solvent : Fluorine or Alcohol type.
(2)Cleaning after soldering should be done after the terminal temperature falls to 90℃ or below, or after leaving the switch for five minutes or longer at room temperature.
AS series are not process sealed and are not washable. If the PC board is to be cleaned, clean the soldering surface of substrate with a brush so that the switch is not exposed to the cleaning solution.
(3)Do not use ultrasonic cleaning system.

3. Mounting of Switch

(1)Use the PC boards of ϕ1 holes.
(2)Do not bend the terminals before mounting the switch on the PC board.
(3)After mounting the switch, do not place the device in such a way that the device weight will be applied on the knob, etc. of the switch.
(4)Do not apply load exceeding 12.7 N (1.3 kgf) to the knob. Use a bracket (optional accessory) if the load is expected to exceed 12.7 N (1.3 kgf). The strength of the knob will be reinforced to 29.4 N (3 kgf) max.

■Packaging Specifications



■UL Recognized / CSA Certified

Part No.
ASE1D-2M-10-Z
ASE1E-2M-10-Z
ASE2D-2M-10-Z
ASE2E-2M-10-Z
ASE2N-2M-10-Z
ASE1D-5M-10-Z
ASE2D-5M-10-Z
ASE1D-6M-10-Z
ASE2D-6M-10-Z
ASE2N-6M-10-Z

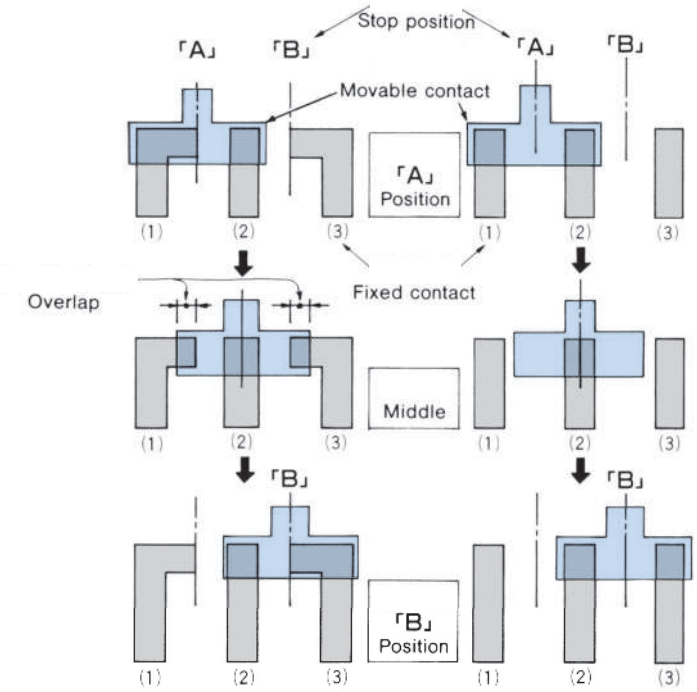
Even if the products are of UL-or CSA-approved ones, The products in stock do not carry the UL mark of the CSA mark.
When placing an order,be sure to specify “With UL/CSA Mark.” For the products with the UL mark or the CSA mark,extra costs will be added.

UL File No.E43275
CSA File No.LR38341

■Shorting (Make-Before-Break)

A switch which momentarily connects both circuits when the actuator is moved from Point A to B in the below figure.

All switches which are not marked as “Shorting” are “Non-shorting” (Break-Before-Make).



Shorting **Non-shorting**

〔Fig.1〕