

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

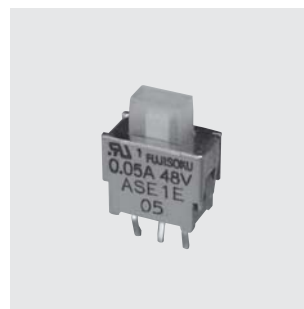
5. Improved operability

The independent detent structure provides a light operating touch.

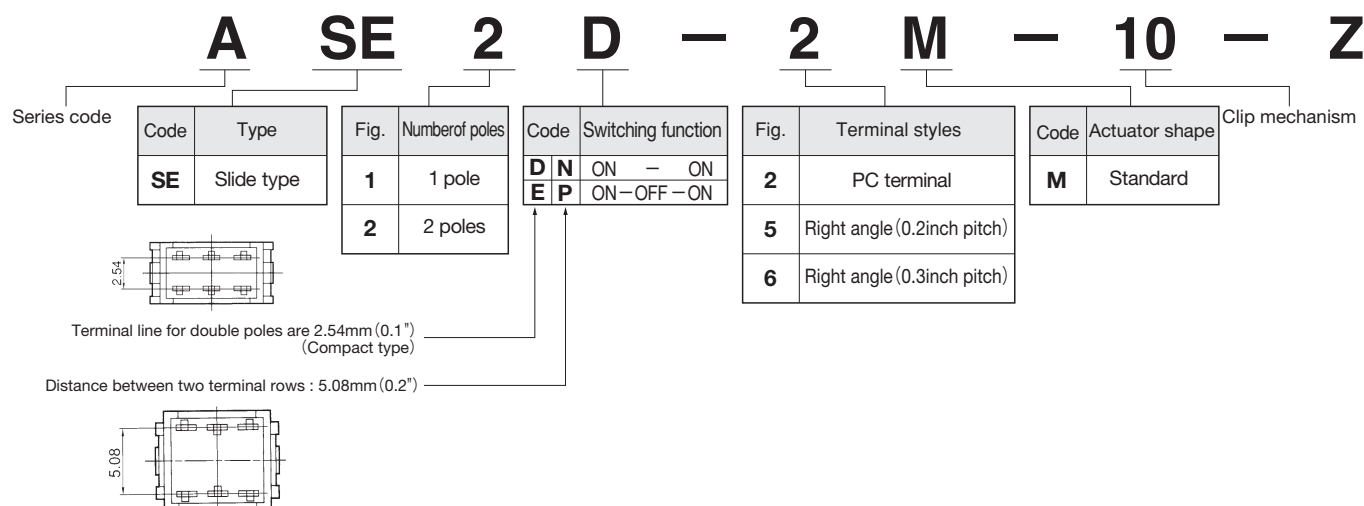
6. UL-recognized

Specifications

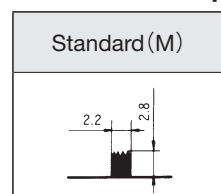
Rating	0.4VA AC/DC	Voltage range	20mV~48V
	Max.	Current range	1 μ A~50mA
	Min.	50mA 60V AC/DC	
Initial contact resistance		50m Ω max.	(1.5mA 200 μ VAC)
Dielectric strength		250VAC 1 minute	
Initial insulation resistance		500M Ω min.	(500VDC)
Electrical life		10,000 cycles at max. rating.	
		10,000 cycles 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	



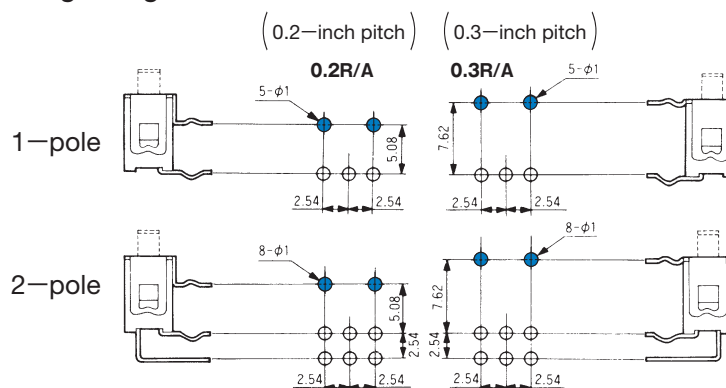
Part Numbering



Actuator Shape



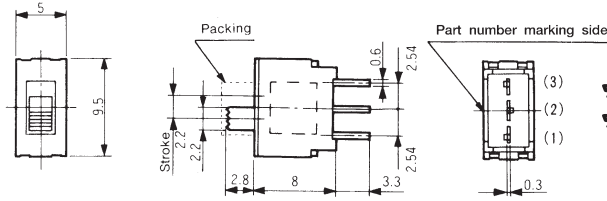
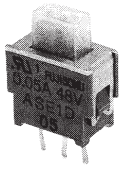
Right Angle Terminals



ASE

SPDT

PC



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

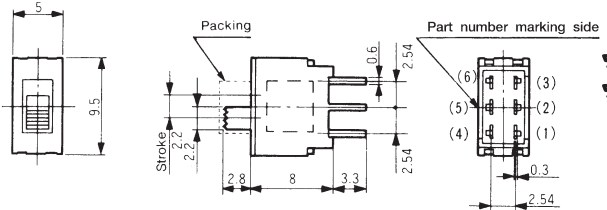
Terminal numbers are not shown on the switch.

DPDT

PC



Distance between two terminal rows : 2.54 mm

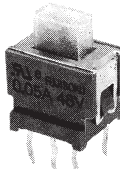


Switching function	Viewed from part No. marking side		
Part No.			
ASE2D-2M-10-Z	ON	—	ON
★ASE2E-2M-10-Z	ON	OFF	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

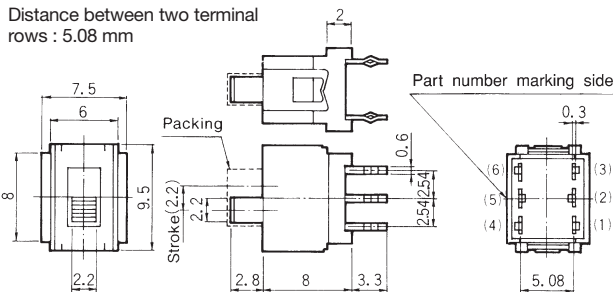
Terminal numbers are not shown on the switch.

DPDT

PC



Distance between two terminal rows : 5.08 mm

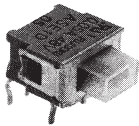


Switching function	Viewed from part No. marking side		
Part No.			
☆ASE2N-2M-10-Z	ON	—	ON
★ASE2P-2M-10-Z	ON	OFF	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

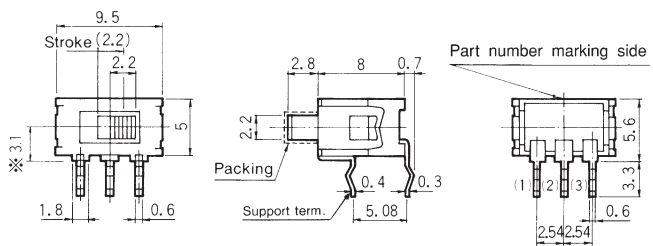
Terminal numbers are not shown on the switch.

SPDT

0.2R/A



Mounting height : 3.1 mm

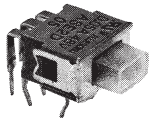


Switching function	Viewed from part No. marking side		
Part No.			
ASE1D-5M-10-Z	ON	—	ON
★ASE1E-5M-10-Z	ON	OFF	ON
Connecting terminals	2-1	—	2-3

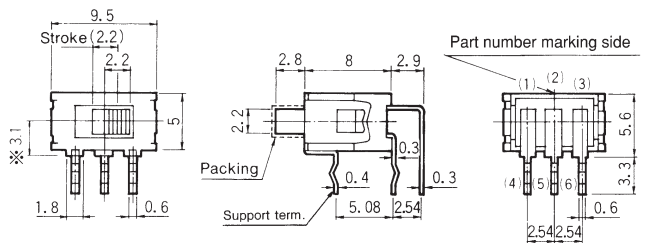
Terminal numbers are not shown on the switch.

DPDT

0.2R/A



Mounting height : 3.1 mm

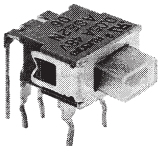


Switching function	Viewed from part No. marking side		
Part No.			
ASE2D-5M-10-Z	ON	—	ON
★ASE2E-5M-10-Z	ON	OFF	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

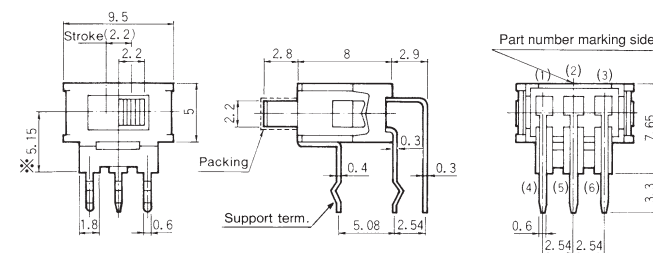
Terminal numbers are not shown on the switch.

DPDT

0.2R/A



Mounting height : 5.15 mm



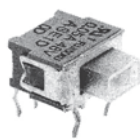
Switching function	Viewed from part No. marking side		
Part No.			
★ASE2N-5M-10-Z	ON	—	ON
▲ASE2P-5M-10-Z	ON	OFF	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

Terminal numbers are not shown on the switch.

★ : Made to order products.

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

0.3R/A



Switching function Part No.	Viewed from part No. marking side		
			
▲ ASE1D-6M-10-Z	ON	—	ON
★ ASE1E-6M-10-Z	ON	OFF	ON
Connecting terminals	2—1	—	2—3

Terminal numbers are not shown on the switch.

0.3R/A



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

Terminal numbers are not shown on the switch.

0.3R/A



Technical drawings of the 3000 Series Plug Valve, showing front, side, and detail views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall diameter: 9.5
- Stroke: 2.2
- Plug diameter: 2.2
- Body length: 5
- Plug length: 5.15
- Plug diameter (bottom): 1.8
- Plug diameter (bottom): 0.6

Side View Dimensions:

- Body length: 2.8
- Overall length: 8
- Plug diameter: 2.2
- Plug length: 0.4
- Plug length: 0.3
- Plug length: 0.3
- Plug length: 7.62
- Plug length: 2.54

Detail View Dimensions:

- Part number marking side
- Slot widths: 1, 2, 3, 4, 5, 6
- Slot width: 0.6
- Slot width: 2.54
- Slot width: 2.54
- Slot width: 7.65
- Slot width: 3.3

Switching function Part No.	Viewed from part No. marking side		
			
★ASE2N-6M-10-Z	ON	—	ON
★ASE2P-6M-10-Z	ON	OFF	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

Terminal numbers are not shown on the switch.

Switching function	D·E	N·P
Mounting	Diagram showing the D·E switching function. The component is mounted on a PC board. The mounting height is indicated as 3.1.	Diagram showing the N·P switching function. The component is mounted on a PC board. The mounting height is indicated as 5.15.

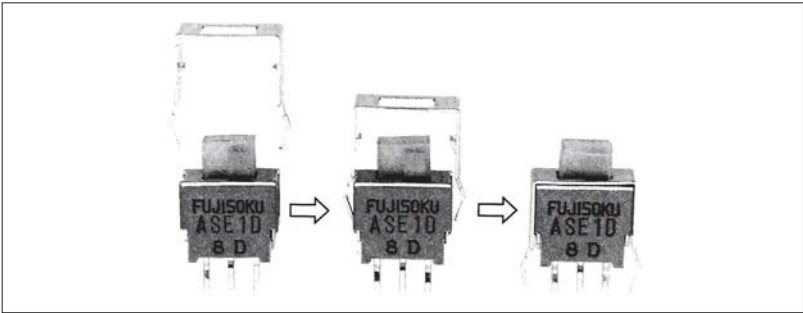
《Supplied separately》

Part Name	Bracket
Part No.	140000640324
Dimensions	

Series	P/C terminal		Right Angle terminal	
	Whithout bracket	Whit bracket	0.2inch pitch	0.3inch pitch
ASE1D ASE1E				
ASE2D ASE2E				
ASE2N ASE2P				

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

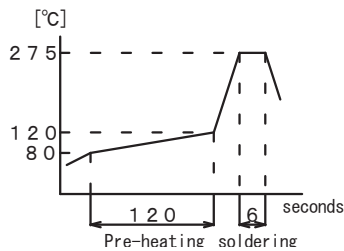
Bracket Installation Procedure



Handling Precautions (AS and ASE Series)

1.Soldering Specifications

- (1)Manual Soldering
Device : Soldering iron
380°C, Max.; 3 seconds, Max.
- (2)Auto Soldering
Device : Jet wave type or dip type
275°C, Max.; 6 seconds, Max.
- Pre-heating should be done at temperatures ranging from 80°C to 120°C 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°C 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 $\phi 1$ 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

