## ■ FEATURES

- High Contact Reliability

Twin-contact clip mechanism is used in the contact section to ensure reliability.

- Washable Structure

All switches are of a completely sealed construction.

- Ideal for Extremely Small Currents

Gold-plated contacts make these switches ideal for use with extremely small currents.

- Designed for PC Boards

Terminal pitches are all in inch sizes (multiples of 2.54 mm ).

- Quality Touch

Independent standard construction provides a light operating touch.

- UL approved


## SPECIFICATIONS

| Rating | Max:50mA 48V AC/DC Min: $1 \mu \mathrm{~A} 20 \mathrm{mV} \mathrm{AC/DC}$ |  |
| :--- | :--- | :--- |
| Initial contact resistance | $50 \mathrm{~m} \Omega$ max $\quad(1.5 \mathrm{~mA} \quad 200 \mu \mathrm{VAC})$ |  |
| Dielectric strength | 250 VAC 1 minute |  |
| Insulation resistance | $500 \mathrm{M} \Omega$ min. | $(250 \mathrm{~V} \mathrm{DC})$ |
| Electrical life | 10,000 cycles at maximum rating |  |
| Operating | 50,000 cycles at minimum rating |  |
| Oemperature range | $-20 \sim+85^{\circ} \mathrm{C}$ |  |
| Storage <br> temperature range | $-40 \sim+85^{\circ} \mathrm{C}$ |  |

## RoHS compliant



TABLE OF PART NUMBERS

| Number of poles | Switching function | PC terminal | Right angle (0.2 inch pitch) |
| :---: | :---: | :---: | :---: |
| 1 pole | ON - ON | 9) ASE1D-2M-10-Z | ¢ d $^{\text {ASE1D-5M-10-Z }}$ |
|  | ON-OFF-ON | 9) ASE1E-2M-10-Z | ¢ 9 ASE1E-5M-10-Z |
| 2 poles | ON - ON | ¢ ${ }^{\text {ASE2D-2M-10-Z }}$ | ¢ 1 ASE2D-5M-10-Z |
|  | ON-OFF-ON | 9) ASE2E-2M-10-Z | ¢ $\times$ ASE2E-5M-10-Z |

: Made-to-order items.

PART NUMBERING


## ACTUATOR SHAPE

■ OPTIONAL ACCESSORIES

| Part Name | Bracket |
| :---: | :---: |
| Part No. | $\mathbf{1 4 0 0 0 0 6 4 0 3 2 4}$ |
|  |  |
| Dimension |  |
|  |  |

[^0]
## - OUTLINE DIMENSIONS



Terminal number not
shown on box.


Terminal number not
shown on box.


Part number marking side


Terminal number not 2.542 .54
shown on box.
The button is sealed with a packing. After washing, remove with tweezers before using.

RIGHT ANGLE TERMINALS


2-pole


MOUNTING HEIGHT

| Switching function | D•E |
| :---: | :---: |
| Mounting |  |

■ BRACKET INSTALLATION PROCEDURE


## PC HOLE LAYOUTS

| Series | P/C terminal |  | Right Angle terminals |
| :--- | :---: | :---: | :---: |
|  | Without bracket | With bracket | 0.2 inch pitch |
| AS1D | AS1E |  |  |
| ASE1D |  |  |  |
| ASE1E | AS2D |  |  |

## PRECAUTIONS

## 1. Soldering

(1) Hand Soldering

Device : Solder iron
$380^{\circ} \mathrm{C}$ Max. 3 sec . Max.
(2) Auto Soldering

Device : Wave or dip type
$275{ }^{\circ} \mathrm{C}$ Max. 6 sec . Max.
Preheat should be within $80-120^{\circ} \mathrm{C}, 120 \mathrm{sec}$.

## 2. Flux Cleaning

(1) Solvent : Fluorine or Alcohol type
(2) Cleaning shall be made when terminal temperature falls to $90^{\circ} \mathrm{C}$ or lower. Or, leave the switch at normal temperature for 5 minutes or longer, before cleanig. When PC board cleaning is required, brushing on the soldering face shall be provided so that the AS series is not exposed to the cleaning solution.
(3) Do not apply ultrasonic cleaning.

## 3. Installation

(1) Use printed circuit board with 1 mm diameter holes.
(2) Do not bend the terminals prior to mounting.
(3) After the switch mounting, do not place the device in a position in which its weight will be placed on the switch Actuator, etc.
Do not apply a load exceeding 12.7 N \{1.3 kgf\} to the Actuator.
Use brackets (sold separately) when applying a force of over $12.7 \mathrm{~N}\{1.3 \mathrm{kgf}\}$ to the button. Actuator strength is $29.4 \mathrm{~N}\{3 \mathrm{kgf}\}$ max., when a Bracket is used.

PACKAGING SPECIFICATION



[^0]:    ※Please contact us if you can't find your preferable combination in the table of part numbers.

