## Features/Benefits

- Excellent tactile feel
- Plunger can be custom designed
- SMT switch adapted for low current
- Only actuate 1 direction at a time
- Provides logic level control
- RoHS compliant


## Typical Applications

- Seat adjustments
- Industrial controls
- Mirror adjustment
- Home entertainment
- Multi-function steering wheel


| Construction |  |
| :--- | :--- |
| FUNCTION: | QSA2: 2 way switch <br> QSA4: 4 way switch |
| TYPE OF SWITCH: |  |
| QSA2: $2 \times$ make contacts |  |
| QSA |  |

For further information and test reports concerning life, please consult factory.

## Mechanical (continued)

RETURN FORCE: $\quad 0,8 \pm 0,3 \mathrm{~N}$
ACTUATION STRENGTH: $>50 \mathrm{~N}$, parallel to PCB
$>100 \mathrm{~N}$, vertical (push) to PCB
$>50 \mathrm{~N}$ traction (pull) force

## Electrical

SWITCHING POWER MAX: $0,20 \mathrm{VA}$ MIN / MAX SWITCHING VOLTAGE: (VDC) 20 mV / 30 V MIN / MAX SWITCHING CURRENT: $1 \mathrm{~mA} / 50 \mathrm{~mA}$ BOUNCE: <1 ms

## Environmental

OPERATING TEMPERATURE: $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ STORAGE TEMPERATURE: $\quad-40^{\circ} \mathrm{C}$ to $95^{\circ} \mathrm{C}$

## Process

AUTOMATIC SOLDERING: Reflow compatible per CECC00802

## Other Data

CONTACT MATERIAL: Au on Ni layer
SOLDERING PINS: Au flash
HOUSING MATERIAL: Thermoplastic
QSA is RoHS compliant.
Note: Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

## How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.


## QSA Series Silent Navigation Switch for SMT


yellow surface: terminals and top plate fixations to be soldered with Infrared process green surface: bearing point -to keep red hole: free from PCB lines snap-in pegs and positioning pins to get through the PCB but not to be soldered


