

## **SPECIFICATIONS**

| Electrical Ratings    | 50mA @ 35VDC            |
|-----------------------|-------------------------|
| Electrical Life       | 100,000 cycles typical  |
| Contact Resistance    | < 50 m $\Omega$ initial |
| Actuation Force       | 130 +/- 50gF            |
| Actuator Travel       | .50 +/1mm               |
| Dielectric Strength   | 500Vrms min             |
| Insulation Resistance | > 100MΩ min             |
| Operating Temperature | -40°C to 85°C           |
| Storage Temperature   | -40°C to 85°C           |

### MATERIALS ← RoHS COMPLIANT

| Cover     | PC                          |
|-----------|-----------------------------|
| Base      | Valox                       |
| Contacts  | Copper Alloy, Silver Plated |
| Terminals | Copper Alloy, Silver Plated |

#### **ORDERING INFORMATION**

| ORDERING           |               |                  |                          |   |          |              |       |  |
|--------------------|---------------|------------------|--------------------------|---|----------|--------------|-------|--|
| 1. Series:         |               | SH               | В                        | L   | В        | Α            | MS    |  |
| SH                 |               |                  |                          |   |          |              |       |  |
| 2. Actuator Option | ıs:           |                  |                          |   |          |              |       |  |
| A - Square         |               |                  |                          |   |          |              |       |  |
| B - Round          |               |                  |                          |   |          |              |       |  |
| C - Flat           |               |                  |                          |   |          |              |       |  |
| D - Post           |               |                  |                          |   |          |              |       |  |
| E - Large Square   | Сар           |                  |                          |   |          |              |       |  |
| 3. Actuator Colors |               |                  |                          |   |          |              |       |  |
| Non-illuminated A  |               | or Options III   | uminated Actuator C      | options   |          |              |       |  |
|                    | Green         | -                | = LED Option – Clear     | -   |          |              |       |  |
|                    | Orange        |                  | = LED Option – With      |   |          |              |       |  |
|                    | Blue          |                  | _ED only available with  |   |          |              |       |  |
|                    | Dark Gray     |                  |                          |   |          |              |       |  |
|                    | Beige         |                  |                          |   |          |              |       |  |
| 4. LED Colors:     |               | ED Colors:       |                          |   |          |              |       |  |
| Blank = No LED     | RG = Red      |                  |                          |   |          |              |       |  |
| R = Red            | RY = Red      |                  |                          |   |          |              |       |  |
| G = Green          | YG = Yell     |                  |                          |   |          |              |       |  |
| Y = Yellow         | BG = Blue     |                  |                          |   |          |              |       |  |
|                    | BR = Blue     |                  |                          |   |          |              |       |  |
| B = Blue           |               |                  |                          |   |          |              |       |  |
| W = White          | BY = Blue     |                  | na atulaa aya anlu ayail | lable with the A or D actu                            |          | Appland      |       |  |
| 5. Laser Etching S |               |                  |                          | able with the A or B actu<br>laser etched to allow th |          |              |       |  |
| Blank = No Laser   | Etching Style | through the      |                          |   | CLLD     | to shine     |       |  |
| A F                |               | un ough the j    |                          |   |          |              |       |  |
| B G                |               |                  |                          |   |          |              |       |  |
| СН                 |               |                  |                          |   |          |              |       |  |
| DJ                 |               |                  |                          |   |          |              |       |  |
| E K                |               |                  |                          |   |          |              |       |  |
| 6. Laser Etching C |               |                  |                          | tuator and is laser etche                             |          | low the star | ndard |  |
| Blank = No Laser   | Etching Cold  | r color of the a | ictuator or the LED to s | hine through the pattern                              | <b>.</b> |              |       |  |
| MS =Misty Silver   |               |                  |                          |   |          |              |       |  |
| BS = Bright Silver |               |                  |                          |   |          |              |       |  |
| BG = Bright Gold   |               |                  |                          |   |          |              |       |  |
| 7. Caps:           |               | Сар              | Colors:                  |   |          |              |       |  |
| Blank = No Cap     | C15 C2        |                  |                          |   |          |              |       |  |
| C11                | C16 C2        |                  | e Cap Options for color  | availability  |          |              |       |  |
| C12                | C17 C2        |                  | ps available with D act  |   |          |              |       |  |
| C13                | C18 C2        |                  |                          |   |          |              |       |  |
| C14                | C19 C2        |                  |                          |   |          |              |       |  |
|                    | 010           |                  |                          |   |          |              |       |  |

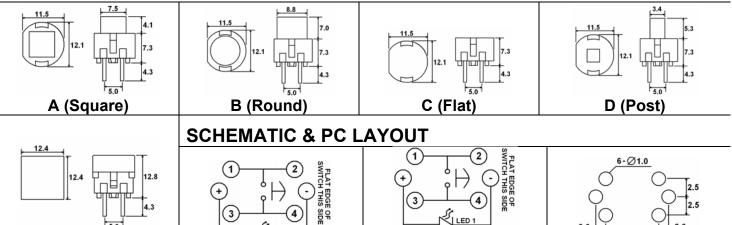




5.0

6.2

#### **DIMENSIONS**



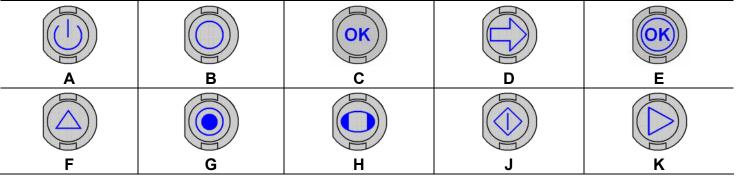
ED :

# LED SPECIFICATIONS

E (Square Cap)

| LED Ratings   |                                  | R         | G         | Y         | В         | W         | Units |
|---|----------------------------------|-----------|-----------|-----------|-----------|-----------|-------|
| Reverse Voltage                                     | VR                               | 5         | 5         | 5         | 5         | 5         | V     |
| Forward Current (avg / peak)                        | I <sub>F</sub> / I <sub>FS</sub> | 30 / 125  | 30 / 125  | 30 / 125  | 30 / 125  | 30 / 125  | mA    |
| Reverse Current $V_R$ = 5V                          | I <sub>R</sub>                   | 10        | 10        | 10        | 10        | 10        | μA    |
| Power Dissipation                                   | PT                               | 69        | 75        | 75        | 120       | 120       | mW    |
| Forward Voltage (typ. / max), I <sub>F</sub> = 20mA | V <sub>F</sub>                   | 1.8 / 2.3 | 2.0 / 2.5 | 2.0 / 2.5 | 3.5 / 4.0 | 3.5 / 4.0 | V     |
| Wavelength, Peak Emmission, I <sub>F</sub> = 20mA   | λ <sub>P</sub>                   | 660       | 572       | 595       | 455       |           | nm    |
| Spectral Line Half-Width, I <sub>F</sub> = 20mA     | Δλ                               | 20        | 20        | 20        | 30        |           | nm    |
| Luminous Intensity, I <sub>F</sub> = 20mA           | LI                               | 20        | 20        | 80        | 40        | 200       | mcd   |
| Viewing Angle                                       | Θ                                | 150       | 150       | 150       | 150       | 150       | Deg   |

# LASER ETCHING STYLES

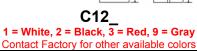


# CAP OPTIONS ←FOR D ACTUATOR

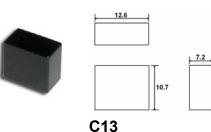




Contact Factory for other available colors



7.0



C13\_ 1 = White, 2 = Black, 3 = Red, 9 = Gray Contact Factory for other available colors

www.citswitch.com phone - 763.535.2339 fax - 763.535.2194



CAP OPTIONS ← FOR D ACTUATOR

