# General Specifications

### **Electrical Capacity (Resistive Load)**

Power Level (silver): 0.1A maximum @ 30V AC/DC

### **Other Ratings**

| Contact Resistance:      | 50 milliohms maximum  |
|--------------------------|---|
| Insulation Resistance:   | 100 megohms minimum @ 500V DC   |
| Dielectric Strength:     | 500V AC minimum for 1 minute minimum  |
| Mechanical Life:         | 100,000 operations minimum  |
| Electrical Life:         | 50,000 operations minimum   |
| Nominal Operating Force: | 3.43N   |
| Contact Timing:          | Nonshorting (break before make)   |
| Travel:                  | Pretravel .087" (2.2mm); Overtravel .031" (0.8mm); Total Travel .118" (3.0mm) |
|                          |   |

### **Materials & Finishes**

| Housing:             | Glass fiber reinforced polyamide    |
|----------------------|-------------------------------------|
| Base:                | Glass fiber reinforced polyamide    |
| Movable Contact:     | Phosphor bronze with silver plating |
| Stationary Contacts: | Phosphor bronze with silver plating |
| Common Terminal:     | Phosphor bronze with silver plating |
| End Terminals:       | Phosphor bronze with silver plating |
| Lamp Terminals:      | Phosphor bronze with silver plating |
|                      |                                     |

#### **Environmental Data**

|   | <b>Operating Temperature Range:</b> | nge: –25°C through +50°C (–13°F through +122°F) for Illuminated  |  |
|---|-------------------------------------|--|--|
|   |                                     | –25°C through +70°C (–13°F through +158°F) for Nonilluminated  |  |
| _ | Humidity:                           | 90 ~ 95% humidity for 96 hours @ 40°C (104°F)  |  |
|   | Vibration:                          | 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning                      |  |
|   |                                     | in 1 minute; 3 right angled directions for 2 hours   |  |
|   | Shock:                              | 50G (490m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) |  |
|   |                                     |  |  |

### Installation

Mounting Torque: **Cap Installation Force:** Soldering Time & Temperature: 0.49Nm (4.34 lb•in) maximum for round mounting nut 9.8N (2.2 lbf) maximum downward force on cap Manual Soldering: See Profile A in Supplement section.

### **Standards & Certifications**

UL: File No. E44145 - Recognized only when ordered with marking on switch.

Add "/U" or "/CUL" before first dash in part number to order UL recognized switch. All models recognized at 0.1A @ 30V AC/DC.

Rotaries

Slides

Tactiles

÷

Touch

D



Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

**Factiles** 

÷

Touch

Indicators

Supplement Accessories

## Distinctive Characteristics

Full face and spot illumination available. Front panel relamping.

Choice of super bright LEDs in white, green, and blue in addition to bright red, amber, and green LEDs.

Compact front panel design with 9mm square or round bezel options.

Rear panel threaded mounting. Behind panel depth of less than one inch. 8mm body diameter fits common size panel cutout.

Latchdown feature gives indication of circuit status. Audible and tactile feedback with smooth and responsive operation.

Dual, sliding contacts with self-cleaning action provide contact stability, high reliability, and increased operating life.

Solder lug terminals have spacing of .100" (2.54mm) for choice of mounting.

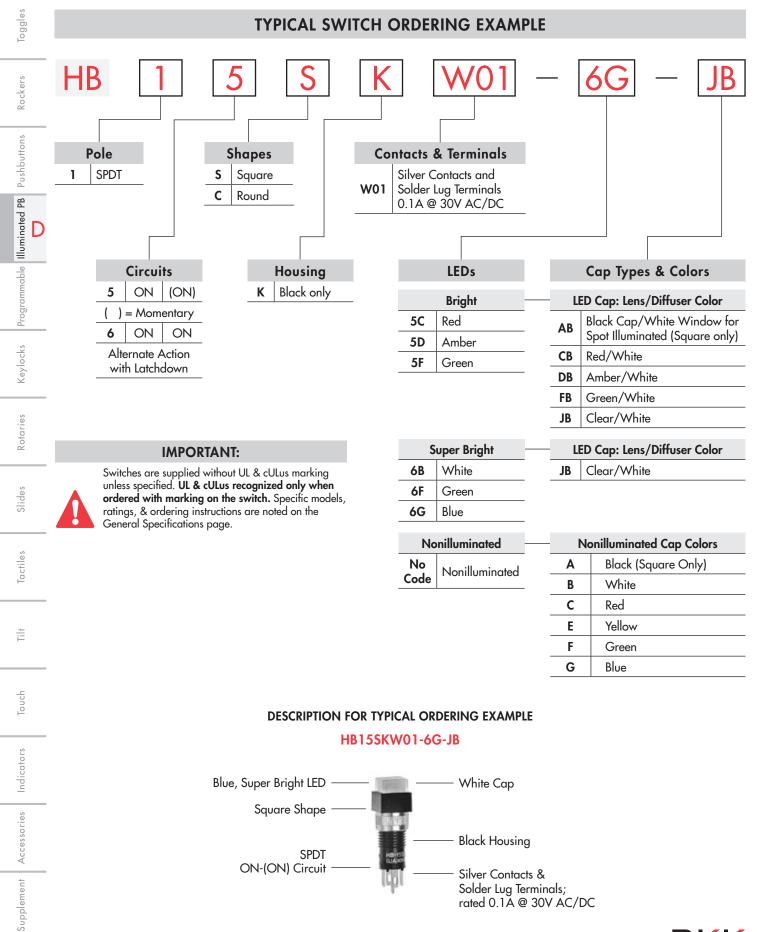
Longer normally closed terminal facilitates wiring and soldering.

Molded-in terminals lock out flux, dust, and other contaminants.

Matching indicators available.



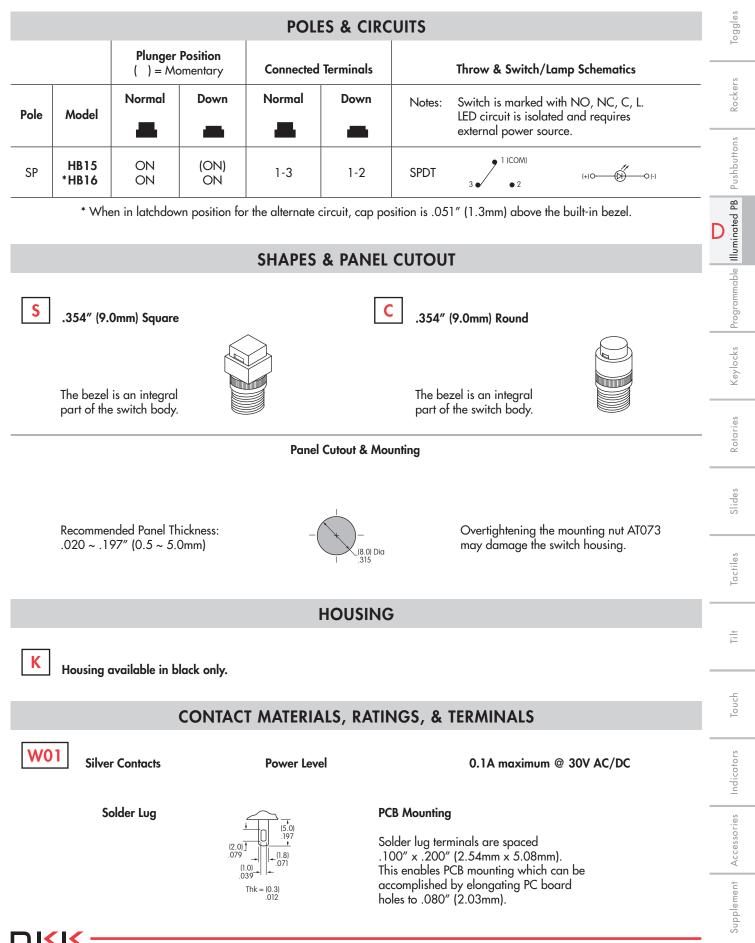
SWITCHES

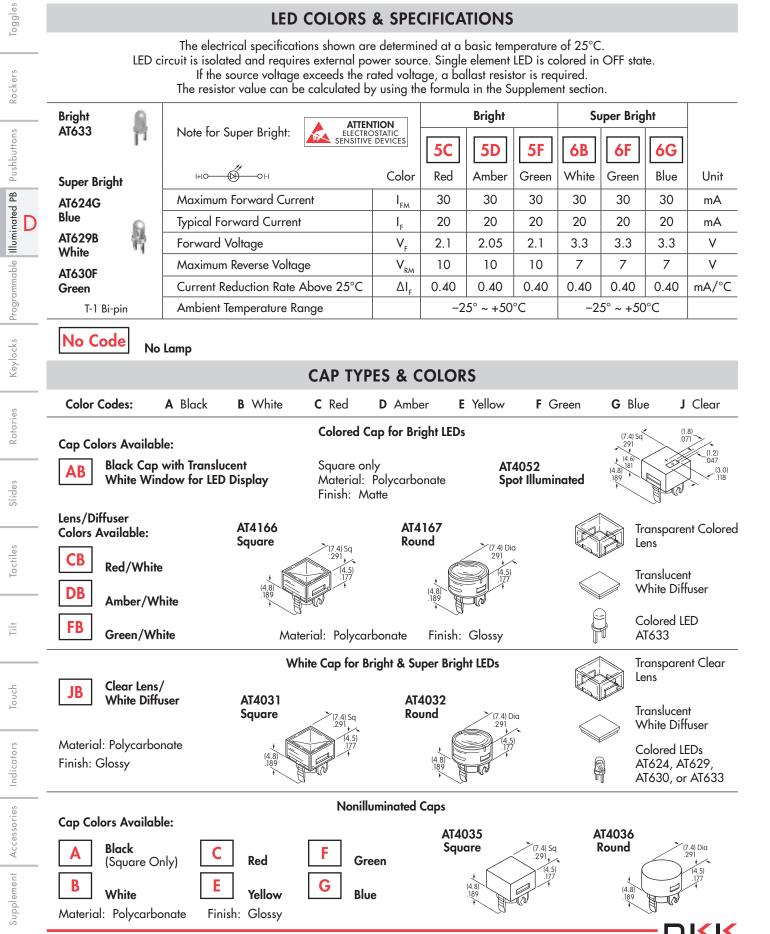


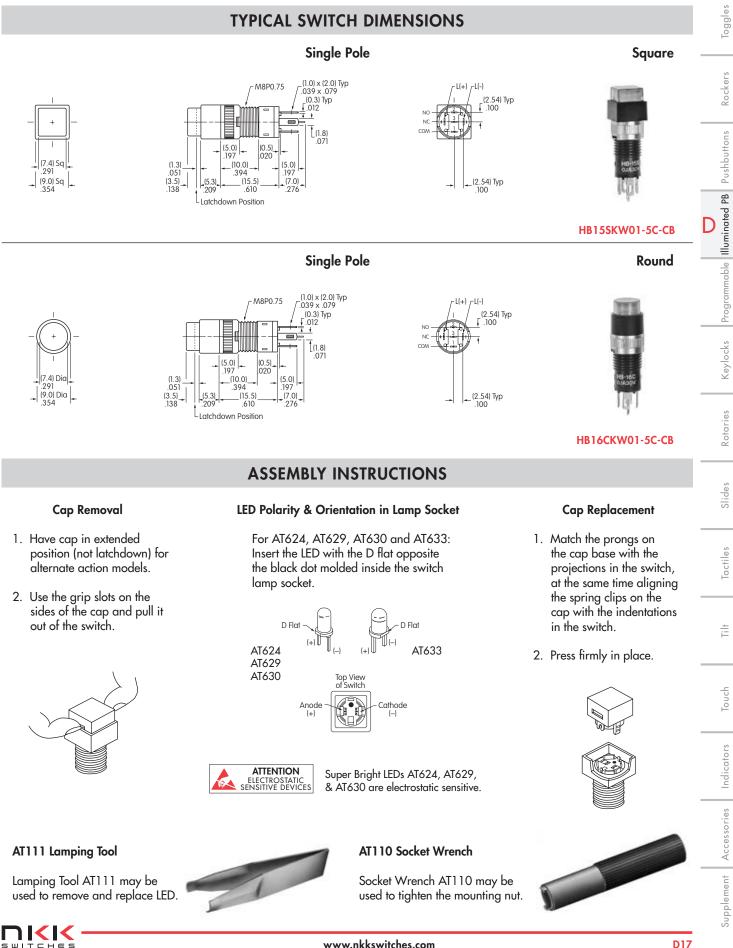


### Subminiature Pushbuttons

## **Series HB**







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NKK Switches: HB15CKW01-E HB16CKW01-B