General Specifications

Electrical Capacity (Resistive	Load)
Power Level (silver):	3A @ 125V AC or 3A
Logic Level (gold):	0.4VA maximum @ 28

3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC 0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) Note: Find additional explanation of operating range in Supplement section.

Other Ratings

Sinci Kunngs	
Contact Resistance:	50 milliohms maximum for silver; 100 milliohms maximum for gold
Insulation Resistance:	200 megohms minimum @ 500V DC
Dielectric Strength:	1,000V AC minimum between contacts for 1 minute minimum;
	1,500V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	1,000,000 operations minimum for momentary circuit
	200,000 operations minimum for maintained circuit
Electrical Life:	100,000 operations minimum
Nominal Operating Force:	Single pole: 1.47N for nonsealed; 1.67N for sealed
	Double pole: 2.75N for nonsealed; 2.94N for sealed
Contact Timing:	Nonshorting (break-before-make)
Travel:	Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Materials & Finishes

Housing/Bezel:	Glass fiber reinforced polyamide (UL94V-0)
Snap-in Frame:	Stainless steel
Base:	Diallyl phthalate resin (UL94V-0)
Movable Contactor:	Phosphor bronze with silver or gold plating
Movable Contacts:	Silver alloy with silver plating or brass with gold plating
Stationary Contacts:	Silver alloy or copper with gold plating
Switch Terminals:	Phosphor bronze with tin plating
Lamp Terminals:	Phosphor bronze with tin plating

Environmental Data

Operating Temperature Range:	–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 ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing:	IP65 of IEC60529 standard for panel seal models

Installation

Mounting Torque:0.785Nm (6.95 lb•in) maximumQuick Connect Force:24.5N maximum downward force on connectorSoldering Time & Temperature:Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

Flammability Standards:	UL94V-0 housing & base
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 solder lug models recognized at 3A @ 125/250V AC or 0.4VA @ 28V AC/DC maximum.
CSA:	File No. 023535_0_000 - Certified only when ordered with marking on switch.
	Add "/C" before first dash in part number to order CSA certified switch.
	All solder lug models certified at 3A @ 125/250V AC or 0.4VA @ 28V AC/DC maximum.

Toggles

Rotaries

Slides

Tactiles

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Touch

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Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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Touch

Distinctive Characteristics

Full face or spot illumination with incandescent lamps or multi-element LEDs, with or without resistors.

Choice of super bright LEDs in white, green, and blue as well as bright LEDs in red, amber, and green.

Combination bezel-barrier is an integral part of the switch and prevents accidental actuation.

Unique thermoplastic elastomer seal inside caps plus rolled sleeve of nitrile butadiene rubber at joining of housing and inner case, all for added protection to interior mechanism.

Dust and oil tight as well as splashproof panel seal models qualify to IP65 of IEC60529 Standards (similar to NEMA 4 and 13). Panel seal models provided with exterior o-ring.

Distinctive design of snap-action contacts for shock resistance, long life, and sensitive actuation.

High density design to give behind panel depth of less than one inch.

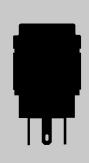
Terminals are epoxy sealed to lock out flux, dust, solvents, and other contaminants.

Latchdown for indication of circuit status, plus audible, tactile feedback with smooth, responsive operation.

Matching indicators available.









Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

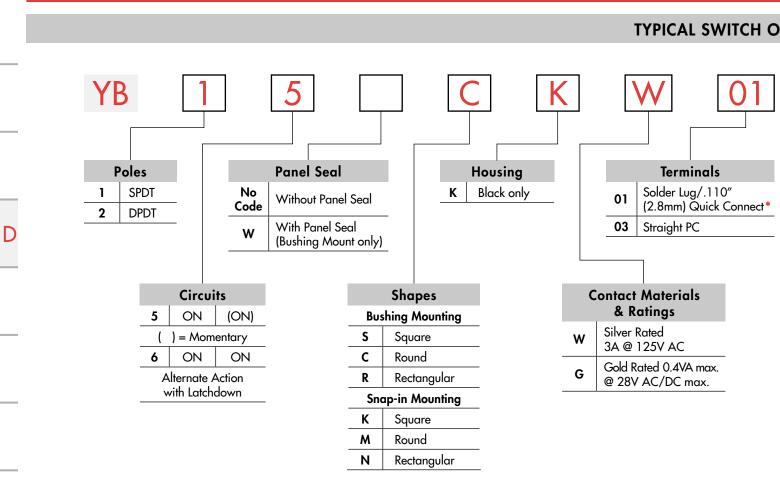
Tactiles

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Touch

Indicators

Supplement Accessories



IMPORTANT:



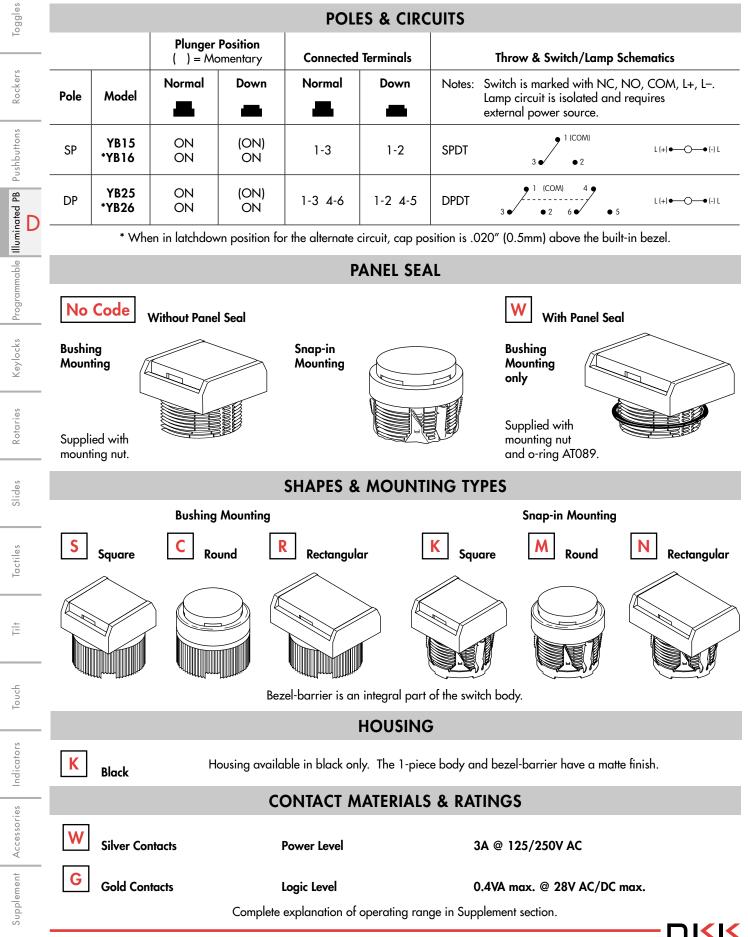
Switches are supplied without UL, cULus & CSA marking unless specified. **UL, cULus & CSA recognized only when ordered with marking on the switch.** Specific models, ratings, & ordering instructions are noted on General Specifications page. Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

YB15CKW01-6F-JB

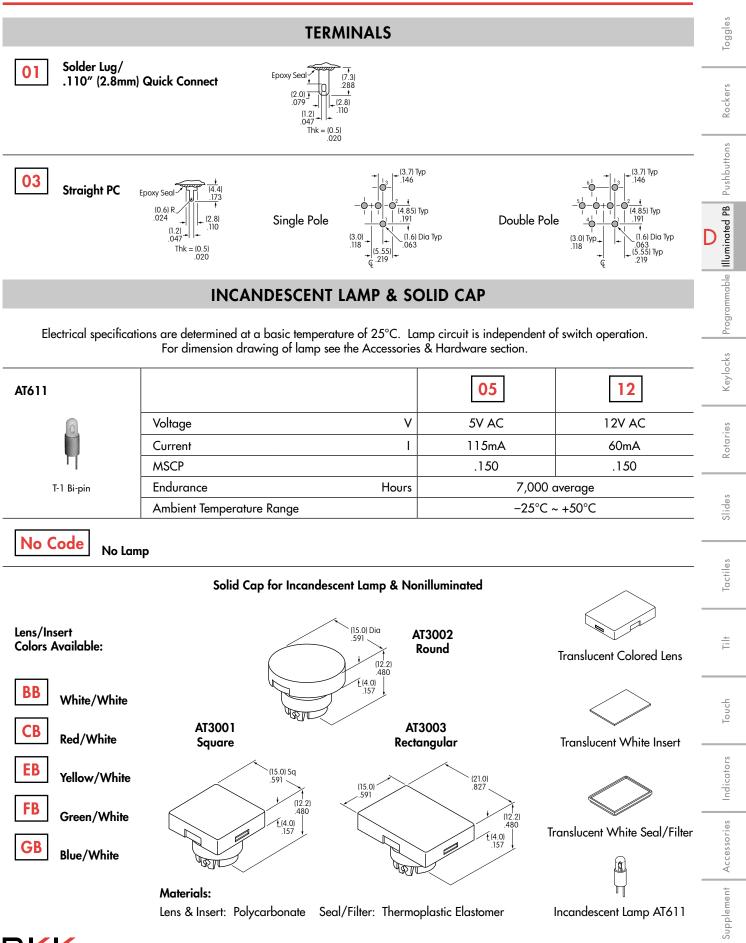


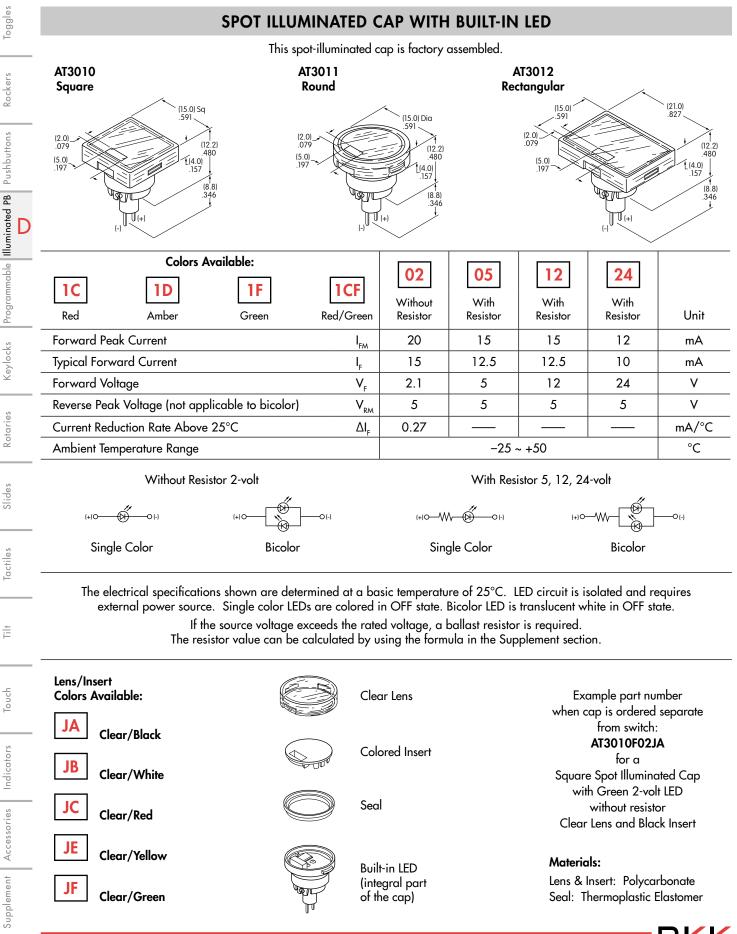




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Short Body Pushbuttons







Toggles

Rockers

BRIGHT LED & LED CAPS

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement section.

Electrical Specifications for Bright LED without Resistor

	Electrical Specificatio	ons tor Bright LED v	vithout Resist	or			
Bright AT628	Colors Available: 5C Red 5D Am	ber 5F Green	No Co	ode No Re	esistor	Unit	
		LED Colors	Red	Amber	Green		
	Forward Peak Current	I _{FM}	40	40	40	mA	D
10	Typical Forward Current	I _F	26	26	26	mA	
11	Forward Voltage	V _F	1.9	2.0	2.0	V	
	Reverse Peak Voltage	V _{RM}	4	4	4	V	
-6-	Current Reduction Rate Above 25°C	ΔI_{F}		0.50	,	mA/°C	
T-1 Bi-pin	Ambient Temperature Range	<u>.</u>		-25 ~ +50		°C	_
	Electrical Specificat	ions for Bright LED	with Resistor	r		1	
Bright AT634	Colors 5C Red 5D Am	ber 5F Green	05	12	24	Unit	
	Forward Peak Current	I _{FM}	_	_	_	mA	
	Typical Forward Current	I _F	25	20	10	mA	
T	Forward Voltage	V _F	5	12	24	V	_
1.0	Reverse Peak Voltage	V _{RM}	4	8	16	V	
	Current Reduction Rate Above 25°C	ΔI _F				mA/°C	
T-1¼ Bi-pin	Ambient Temperature Range	· · ·		-25 ~ +50	I	°C	
AT634 5-volt, 2-element ^{(+10—} vith Resistor	AT634 12-volt, 4-element with Resistor	~_ ©_© _~~	–ol-) 24- 4-e	534 ∙volt, ^{(+)0—} ∧ Ilement h Resistor	∧́́∰	 ∰он	
ens/Insert	Ca AT3004	p for Bright LED	~				
olors Available: JB Clear/Wl	Square .59	Round		(15.0) Dia .591 (12.2) .480 (14.0) .157	Transparent	Clear Lens	
JC Clear/Rea	×	(21.0 .827		.157	Translucent Co	olored Insert	
JD Clear/An	Rectangular		(12.2) .480 (14.0)	Tra	nslucent White	e Seal/Diffuser	
JF Clear/Gr	een		.15/				_
Materials Lens & Ins	: :ert: Polycarbonate Seal/Diffuser: The		er		Bright AT628		
	-	-					





Toggles

Rockers

Rotaries

Slides

Tactiles

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Touch

Indicators

Supplement Accessories

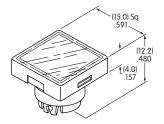
SUPER BRIGHT LED & LED CAPS

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement section.

	Electrical Specifications for Super Bright LED							
D	Super Bright AT625G Blue AT631B White AT632F Green	ATTENTION ELECTROSTATIC SENSITIVE DEVICES	Colors:	6B White	6F Green	6G Blue	Unit	
		Forward Peak Current	I _{FM}	30	30	30	mA	
		Typical Forward Current	I _F	20	20	20	mA	
		Forward Voltage	V _F	3.6	3.5	3.6	V	
	0 []	Reverse Peak Voltage	V _{RM}	5	5	5	V	
		Current Reduction Rate Above 25°C	ΔI_{F}		0.50	1	mA/°C	
	T-1 Bi-pin	Ambient Temperature Range			-25 ~ +50		°C	

Cap for Super Bright LED

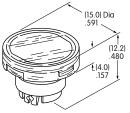
AT3014 Square



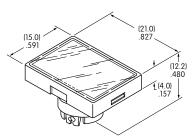
Clear/White



AT3015



AT3016 Rectangular





Transparent Clear Lens

Translucent White Insert

Translucent White Seal/Diffuser



Super Bright LEDs AT625 AT631 AT632



Materials:

JB

Lens/Insert Colors Available:

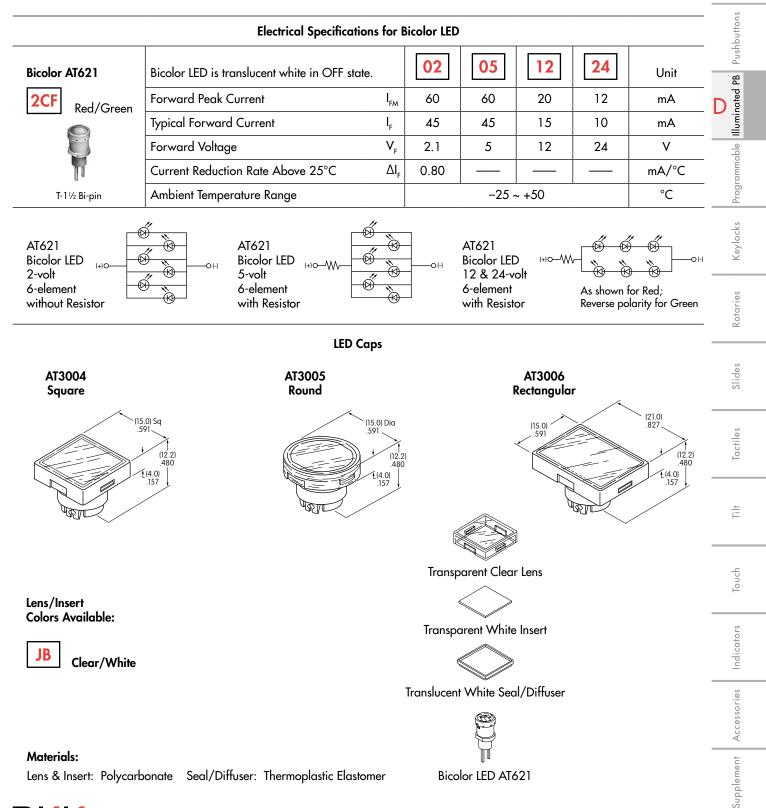
Lens & Insert: Polycarbonate Seal/Diffuser: Thermoplastic Elastomer

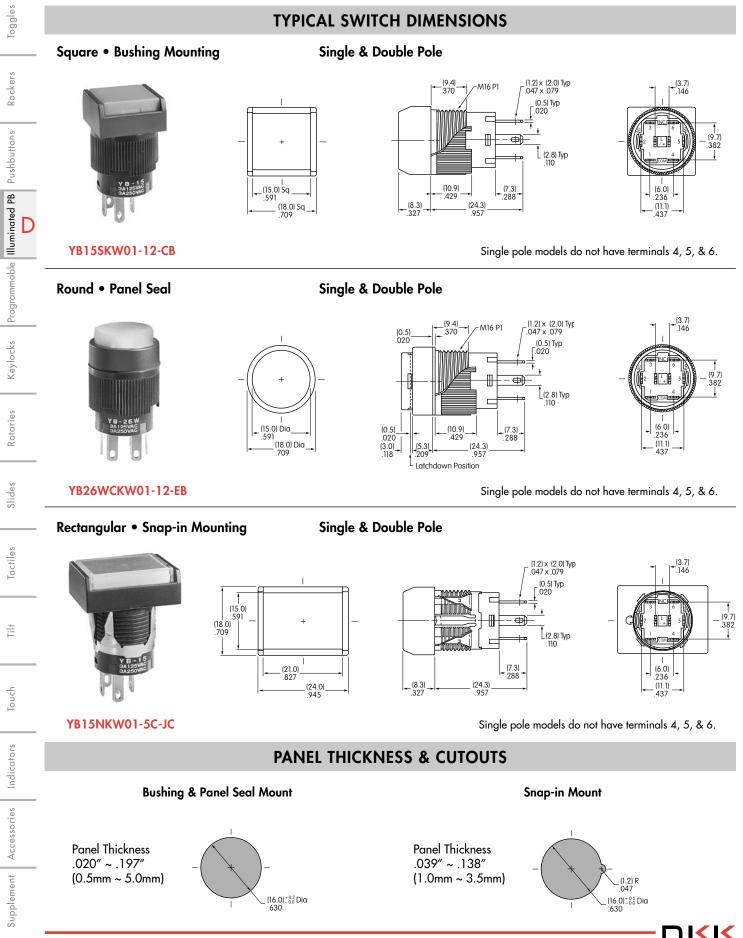


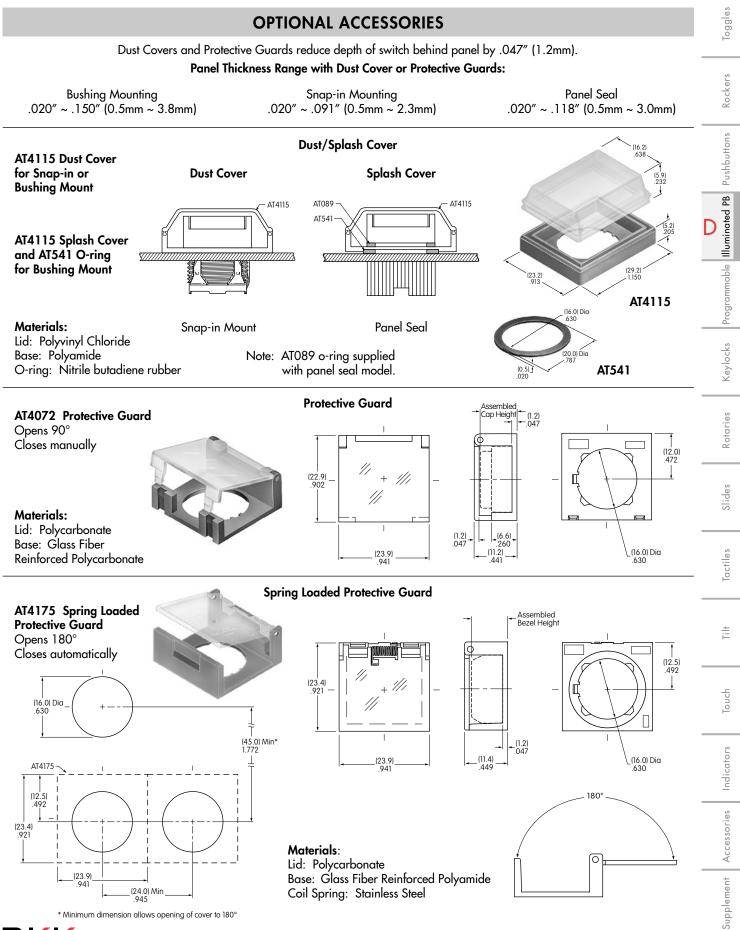
Rockers

BICOLOR LED & LED CAPS

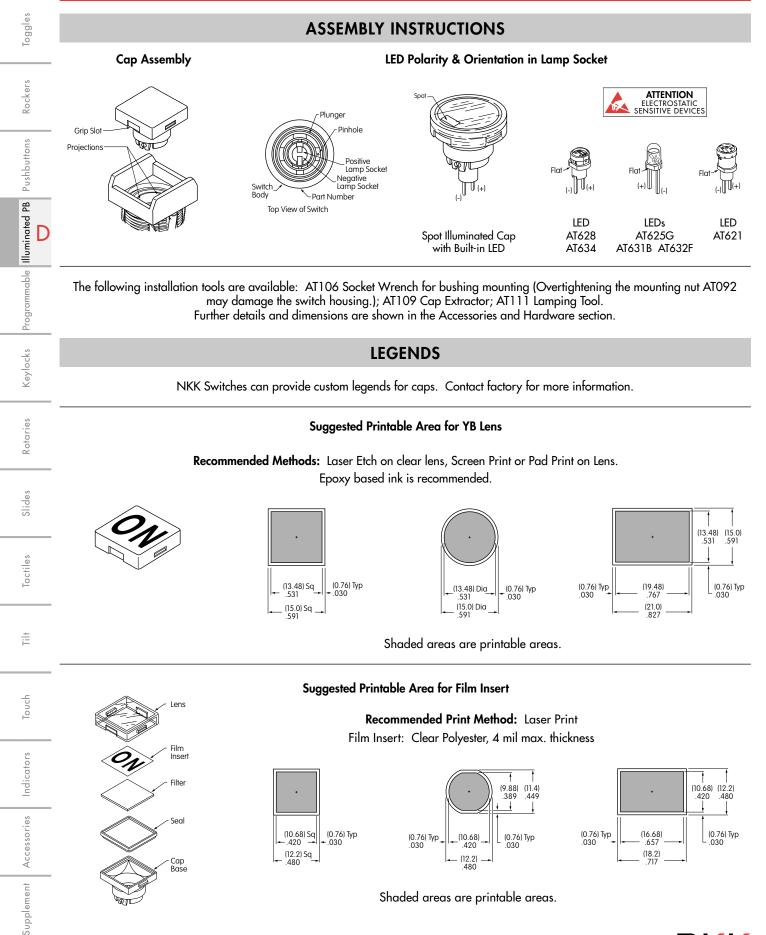
The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement section.











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