

Change Notice

HB & TL Series

Change to Super Bright White LED Specifications for HB Illuminated Pushbuttons

Type of Change:



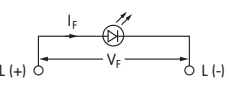
- Engineering Part Number
- Product Appearance

The HB Illuminated Pushbuttons will have a change to the specifications for Super Bright White LEDs. The change will effect all illuminated switches and indicators with AT629B, both standard and custom. The specification changes are outlined below, followed by effected standard part numbers.



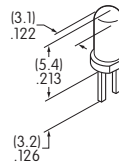
HB Illuminated Pushbuttons

Electrical Specifications for AT629B LED

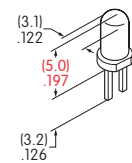
Super Bright White AT629B	 ATTENTION ELECTROSTATIC SENSITIVE DEVICES	Electrical specifications are determined at a basic temperature of 25°C.		
		Before Change	After Change	
 T-1 Bi-pin 		Single element LED is colored in OFF state.	6B	6B
	Maximum Forward Current	I_{FM}	30mA	30mA
	Typical Forward Current	I_F	20mA	20mA
	Forward Voltage	V_F	3.6V	3.3V
	Maximum Reverse Voltage	V_{RM}	5	7
	Current Reduction Rate Above 25°C	ΔI_F	0.50 mA/°C	0.40 mA/°C
	Ambient Temperature Range		-25 ~ +50 °C	-25 ~ +50 °C

Super Bright LED AT629B
Change to Dimensions

Before Change

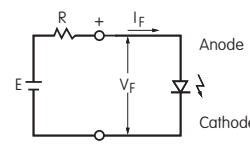


After Change



Notes

- The LED circuit is isolated and requires an 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 shown here.
- The changes to LED specifications do not effect any external dimensions of the switches.
- No changes to the Green (6F) or Blue (6G) Super Bright LEDs.
- Contact the factory if further details are needed.



$$R = \frac{E - V_F}{I_F}$$

Where: R = Resistor Value (Ohms)
 E = Source Voltage (V)
 V_F = Forward Voltage (V)
 I_F = Forward Current (A)

Part Numbers Effected by AT629B LED Change

Switches		Indicators
HB15SKW01-6B-JB	HB16SKW01-6B-JB	HB01KW01-6B-JB
HB15CKW01-6B-JB	HB16CKW01-6B-JB	HB02KW01-6B-JB

Effective Date

Changes to HB Pushbuttons with AT629B Super Bright White LEDs will be effective April, 2016.



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Change Notice

HB & TL Series

Change to Super Bright White LED Specifications for TL Illuminated Toggles

Type of Change:


- Engineering Part Number
 Product Appearance

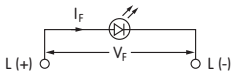
The TL Illuminated Toggles will have a change to the specifications for Super Bright White LEDs. The change will effect all illuminated models with the 6B super bright code, both standard and custom. The specification changes are outlined below, followed by effected standard part numbers.



TL Illuminated Toggle

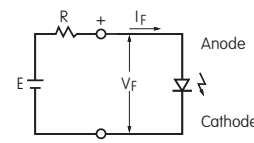
Electrical Specifications for Super Bright White LED

 Super Bright White AT629B	Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation.	Clear Toggle	
		Before Change	After Change
LED Factory Assembled – Not Available Separately		6B	6B
Maximum Forward Current	I_{FM}	30mA	30mA
Typical Forward Current	I_F	20mA	20mA
Forward Voltage	V_F	3.6V	3.3V
Maximum Reverse Voltage	V_{RM}	5	7
Current Reduction Rate Above 25°C	ΔI_F	0.50 mA/°C	0.40 mA/°C
Ambient Temperature Range		-10°C ~ +55°C	-10°C ~ +55°C



Notes

- The LED circuit is isolated and requires an 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 shown here.
- The changes to LED specifications do not effect any external dimensions of the switches.
- No changes to the Green (6F) or Blue (6G) Super Bright LEDs.
- Contact the factory if further details are needed.



$$R = \frac{E - V_F}{I_F}$$

Where: R = Resistor Value (Ohms)
 E = Source Voltage (V)
 V_F = Forward Voltage (V)
 I_F = Forward Current (A)

Part Numbers Effected by Change to Super Bright White LED

TL22DNAW016B

TL22SNAG016B

Effective Date

Changes to TL Toggles with AT629B Super Bright White LEDs will be effective April 2016.

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