Contact No. 358 **Change Notice**

Changes for AT633 Bright LEDs

Type of Change:

☑ Engineering Part Number

☑ Appearance Product

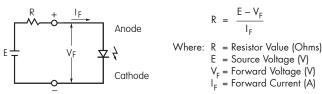
The AT633 bright LEDs for HB Illuminated Pushbuttons and Indicators will be undergoing changes. There will be revisions to electrical values and dimensions, and they will apply to red, amber and green LEDs for standard or custom switches and indicators. Following is the comparison between the specifications before and after the changes, and below compares the physical differences and dimension change.

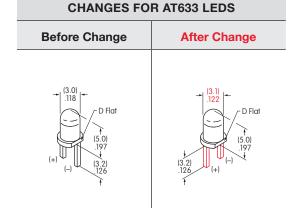
Effected standard part numbers are on page 2.

CHANGES TO LED SPECIFICATIONS FOR AT633							
Electrical specifications are determined at a basic temperature of 25°C.		Before Change			After Change		
(+) O (-)	Color	C	D	F Green	C	D	Green
Maximum Forward Current	I _{FM}	30mA	30mA	30mA	30mA	30mA	30mA
Typical Forward Current	I_{F}	20mA	20mA	20mA	20mA	20mA	20mA
Forward Voltage	V _F	1.95V	2.0V	2.1V	2.1V	2.05V	2.1V
		$I_F = 20 \text{mA}$	$I_F = 20mA$	$I_F = 20mA$	$I_F = 20 \text{mA}$	$I_F = 20mA$	$I_F = 20mA$
Maximum Reverse Voltage	V_{RM}	5V	5V	5V	10V	10V	10V
Current Reduction Rate Above 25°C	, ΔI _F	0.42mA/°C	0.42mA/°C	0.42mA/°C	0.40mA/°C	0.40mA/°C	0.40mA/°C
Ambient Temperature Range -25°C ~ +50°C)	−25°C ~ +50°C				

Notes

- The LED circuit is isolated and requires an external power source.
- If the source voltage is greater than the LED's rated voltage, a ballast resistor must be connected in series with the LED. The resistor value can be calculated by using the formula shown here.
- · The positional relationship changes between the LED terminals and the D flat.
- · There are no changes to switches' external dimensions.
- · Contact information is below if more details are needed.





Effective Date

Changes for AT633 Bright LEDs will be effective April 2020.

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HB Series

Contact No. 358 Change Notice

Changes for AT633 Bright LEDs

Effected Standard Part Numbers						
Bright LEDs						
AT633C	AT633D		AT633F			
HB15 Switches		HB16 Switches				

HB15SKW01-5C-AB	HB15SKW01-5F-JB	HB16SKW01-5C-AB	HB16SKW01-5F-JB		
HB15SKW01-5D-AB	HB15CKW01-5C-CB	HB16SKW01-5D-AB	HB16CKW01-5C-CB		
HB15SKW01-5F-AB	HB15CKW01-5D-DB	HB16SKW01-5F-AB	HB16CKW01-5D-DB		
HB15SKW01-5C-CB	HB15CKW01-5F-FB	HB16SKW01-5C-CB	HB16CKW01-5F-FB		
HB15SKW01-5D-DB	HB15CKW01-5C-JB	HB16SKW01-5D-DB	HB16CKW01-5C-JB		
HB15SKW01-5F-FB	HB15CKW01-5D-JB	HB16SKW01-5F-FB	HB16CKW01-5D-JB		
HB15SKW01-5C-JB	HB15CKW01-5F-JB	HB16SKW01-5C-JB	HB16CKW01-5F-JB		
HB15SKW01-5D-JB		HB16SKW01-5D-JB			

HB01 In	HB01 Indicators		HB02 Indicators		
HB01KW01-5C-CB	HB01KW01-5C-JB	HB02KW01-5C-CB	HB02KW01-5C-JB		
HB01KW01-5D-DB	HB01KW01-5D-JB	HB02KW01-5D-DB	HB02KW01-5D-JB		
HB01KW01-5F-FB	HB01KW01-5F-JB	HB02KW01-5F-FB	HB02KW01-5F-JB		

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