## Change Notice

## EB, M, MB2400 \& MB2500 Series

## Changes for AT617 LED \& AT212 Bezel

Type of Change:
$\begin{array}{ll}\boxtimes & \text { Engineering } \\ \boxtimes & \square \text { Part Number } \\ \boxtimes \text { Product } & \boxtimes \text { Appearance }\end{array}$

1. The AT617 LEDs used with M Rockers and EB, MB2400 and MB2500 Pushbuttons will be undergoing changes. This will result in revisions to some of the dimensions and electrical values, and will apply to red, yellow and green LEDs for standard or custom switches. Following is the comparison between the specifications before and after the changes.


EB Series Pushbutton with
Revisions for the AT212 Bezel are on page 2.
AT212 Bezel \& AT617 LEDs

## CHANGES TO LED SPECIFICATIONS FOR AT617

| Electrical specifications are determined at a basic temperature of $25^{\circ} \mathrm{C}$. | Before Change |  |  | After Change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (+1) (8) Color | C <br> Red | E <br> Yellow | F <br> Green | C <br> Red | E <br> Yellow |  |
| Maximum Forward Current $\quad \mathrm{I}_{\mathrm{FM}}$ | 30 mA | 30 mA | 25 mA | 30 mA | 30 mA | 30 mA |
| Typical Forward Current $\mathrm{I}_{\mathrm{F}}$ | 20 mA | 20 mA | 20 mA | 20 mA | 20 mA | 20 mA |
| Forward Voltage ${ }^{\text {a }}$ | 2.0 V | 2.1 V | 2.25 V | 2.1 V | 2.1 V | 2.2 V |
| Forward Voltage | $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ |
| Maximum Reverse Voltage $\quad \mathrm{V}_{\text {RM }}$ | 5 V | 5 V | 5 V | 5 V | 5 V | 5 V |
| Current Reduction Rate Above $25^{\circ} \mathrm{C} \quad \Delta \mathrm{l}_{\mathrm{F}}$ | $0.40 \mathrm{~mA} /{ }^{\circ} \mathrm{C}$ | $0.40 \mathrm{~mA} /{ }^{\circ} \mathrm{C}$ | $0.33 \mathrm{~mA} /{ }^{\circ} \mathrm{C}$ | $0.40 \mathrm{~mA} /{ }^{\circ} \mathrm{C}$ | $0.40 \mathrm{~mA} /{ }^{\circ} \mathrm{C}$ | $0.40 \mathrm{~mA} /{ }^{\circ} \mathrm{C}$ |
| Ambient Temperature Range | $-15^{\circ} \mathrm{C} \sim+70^{\circ} \mathrm{C}$ |  |  | $-15^{\circ} \mathrm{C} \sim+70^{\circ} \mathrm{C}$ |  |  |

## 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.
- Contact information is below if more details are needed.


$$
\begin{aligned}
& R=\frac{E-V_{F}}{I_{F}} \\
& \text { Where: } R=\text { Resistor Value (Ohms) } \\
& E=\text { Source Voltage }(V) \\
& V_{F}=\text { Forward Voltage }(V) \\
& I_{F}=\text { Forward Current }(A)
\end{aligned}
$$

| Before Change | After Change |
| :---: | :---: |
|  |  |

## Effective Date

Changes for AT617 LEDs will be effective June 2020.

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## Contact No. 356

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## Change Notice

## Changes for AT617 LED \& AT212 Bezel

Type of Change:
『 Engineering
$\square$ Part Number
『 Product $\boxtimes$ Appearance

The AT212 Bezel is slated for changes that will accommodate the AT617 LEDs.

2. The AT212 bezels used with M Rockers and EB, MB2400 and MB2500 Pushbuttons will be undergoing changes. This will result in some dimension revisions to accommodate the modified AT617 LEDs. Following is the comparison between the dimensions before and after the changes.

CHANGES FOR AT212 BEZEL


## Notes

- The new AT617 LEDs will only fit with the revised AT212 bezel.
- Contact information is below if more details are needed.


## Effective Date

Changes for AT212 bezels will be effective June 2020.

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