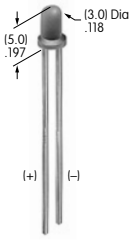
# Change Notice EB, MB24, & M Rockers Series

## New AT617F LEDs

Type of Change:

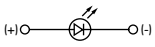
- ☑ Engineering
- ☑ Product
- ☐ Part Number
- ☐ Appearance

**AT617F LED**

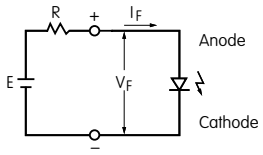



- The new AT617F (Green) LED uses lower power consumption than the previous model.
- The specifications for AT617F LED supersede all previous LED specifications.
- There is no change in size to the AT617F LED.

**AT617 Green LED Specifications**

| Single Element LED  | | Before Change | After Change |
|---|---|---|---|
| | | F Green | F Green |
| Forward Peak Current | $I_{FM}$ | 30mA | 25mA |
| Continuous Forward Current | $I_F$ | 24mA | 20mA |
| Forward Voltage | $V_F$ | 2.1V ($I_F$ = 24) | 2.2V ($I_F$ = 20) |
| Reverse Peak Voltage | $V_{RM}$ | 5V | 5V |
| Current Reduction Rate Above 25°C | $\Delta I_F$ | 0.40mA/°C | 0.33mA/°C |
| Ambient Temperature Range | | –15°C ~ +70° C | –15°C ~ +70° C |

The LED circuit is independent of switch operation.
Electrical specifications are determined at a basic temperature of 25°C.
If the source voltage exceeds rated voltage, a ballast resistor is required.
The resistor value can be calculated by using the formula shown here.




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

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

Notes: 1. Confirm resistor value due to change in Forward Peak Current ($I_{FM}$) and Continuous Forward Current ($I_F$).
2. AT617F LED is used with AT212 Bezel (requires two LEDs). Series affected include EB Pushbuttons, MB24 Pushbuttons and M Rockers.

## Availability

AT617F LED with new specifications will be available with December 2008 production.

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