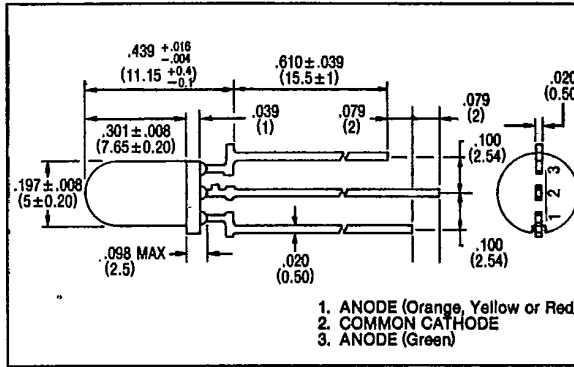


# TRI-STATE LAMPS

T-41-25

## FEATURES

- All plastic mold type, lusterless lens.
- Low drive current, high intensity light emission.
- Recommended forward current:  
 $I_F = 15 \sim 20 \text{mA (DC)}$ .
- Fast response time, capable of pulse operation.



## MAXIMUM RATINGS (Ta = 25°C)

| PART NO.      | FORWARD CURRENT (I <sub>F</sub> ) (mA) | REVERSE VOLTAGE (V <sub>R</sub> ) (V) | POWER DISSIPATION (P <sub>D</sub> ) (mW) | OPERATING TEMPERATURE (T <sub>opr</sub> ) (°C) | STORAGE TEMPERATURE (T <sub>stg</sub> ) (°C) |
|---------------|--|---------------------------------------|--|--|--|
| MT116-OG (O)  | 25                                     | 4                                     | 75                                       | -20 ~ 75                                       | -30 ~ 100                                    |
| (G)           | 25                                     | 4                                     | 75                                       | -20 ~ 75                                       | -30 ~ 100                                    |
| MT116-YG (Y)  | 25                                     | 4                                     | 75                                       | -20 ~ 75                                       | -30 ~ 100                                    |
| (G)           | 25                                     | 4                                     | 75                                       | -20 ~ 75                                       | -30 ~ 100                                    |
| MT116-HRG (R) | 25                                     | 4                                     | 75                                       | -20 ~ 75                                       | -30 ~ 100                                    |
| (G)           | 25                                     | 4                                     | 75                                       | -20 ~ 75                                       | -30 ~ 100                                    |

## OPTO-ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| PART NO.      | MATERIAL  | LENS COLOR  | VIEWING ANGLE | LUMINOUS INTENSITY (mcd) |      |       | FORWARD VOLTAGE (V) |      |       | REVERSE CURRENT |                | PEAK WAVELENGTH (nm) | SPEC. LINE HALF WIDTH (nm) |
|---------------|-----------|-------------|---------------|--------------------------|------|-------|---------------------|------|-------|-----------------|----------------|----------------------|----------------------------|
|               |           |             |               | typ.                     | min. | at mA | typ.                | max. | at mA | μA              | V <sub>r</sub> |                      |                            |
| MT116-OG (O)  | GaAsP/GaP | Milky/Diff. | 80°           | 1.5                      | 5.0  | 15    | 2.1                 | 2.8  | 20    | 100             | 4              | 610                  | 35                         |
| (G)           | GaP/GaP   | Milky/Diff. | 80°           | 1.5                      | 5.0  | 15    | 2.1                 | 2.8  | 20    | 100             | 4              | 565                  | 25                         |
| MT116-YG (Y)  | GaAsP/GaP | Milky/Diff. | 80°           | 1.5                      | 5.0  | 15    | 2.1                 | 2.8  | 20    | 100             | 4              | 585                  | 32                         |
| (G)           | GaP/GaP   | Milky/Diff. | 80°           | 1.5                      | 5.0  | 15    | 2.1                 | 2.8  | 20    | 100             | 4              | 565                  | 25                         |
| MT116-HRG (R) | GaAsP/GaP | Milky/Diff. | 80°           | 1.5                      | 7.0  | 15    | 2.1                 | 2.8  | 20    | 100             | 4              | 635                  | 40                         |
| (G)           | GaP/GaP   | Milky/Diff. | 80°           | 1.5                      | 5.0  | 15    | 2.1                 | 2.8  | 20    | 100             | 4              | 565                  | 25                         |