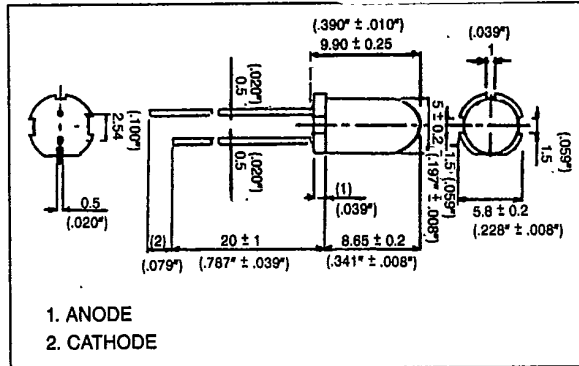


# STANDARD T-1<sup>3</sup>/<sub>4</sub> LED LAMPS

## FEATURES

- All plastic mold type.
- Low drive current, high intensity.
- Excellent on/off contrast ratio.
- Fast response time, capable of pulse operation.



## MAXIMUM RATINGS (Ta = 25°C)

| PART NO. | FORWARD CURRENT (If) (mA) | REVERSE VOLTAGE (Vr) (V) | POWER DISSIPATION (Pd) (mW) | OPERATING TEMPERATURE (Topr) (°C) | STORAGE TEMPERATURE (Tstg) (°C) |
|----------|---------------------------|--------------------------|-----------------------------|-----------------------------------|---------------------------------|
| MT810-R  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT810-HR | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT810-O  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT810-Y  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT810-G  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT810-PG | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT820-R  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT820-HR | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT820-O  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT820-Y  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT820-G  | 25                        | 4                        | 70                          | -20 ~ 75                          | -30 ~ 100                       |
| MT820-PG | 25                        | 4                        | 70                          | -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.                     | typ. | max. | @mA | typ.                | max. | @mA | μA              | Vr |                      |                            |
| MT810-R  | GaP/GaP   | Light Red/Clear  | 15°           |                          | 50   |      | 20  | 2.1                 | 2.8  | 20  | 5               | 4  | 700                  | 100                        |
| MT810-HR | GaAsP/GaP | Light Red/Clear  | 15°           |                          | 150  |      | 20  | 2.1                 | 2.8  | 20  | 100             | 4  | 635                  | 40                         |
| MT810-O  | GaAsP/GaP | Light Org/Clear  | 15°           |                          | 150  |      | 20  | 2.1                 | 2.8  | 20  | 100             | 4  | 610                  | 35                         |
| MT810-Y  | GaAsP/GaP | Light Yell/Clear | 15°           |                          | 150  |      | 20  | 2.1                 | 2.8  | 20  | 100             | 4  | 585                  | 32                         |
| MT810-G  | GaP/GaP   | Light Grn/Clear  | 15°           |                          | 200  |      | 20  | 2.1                 | 2.8  | 20  | 5               | 4  | 565                  | 25                         |
| MT810-PG | GaP/GaP   | Light Grn/Clear  | 15°           |                          | 100  |      | 20  | 2.1                 | 2.8  | 20  | 5               | 4  | 555                  | 20                         |
| MT820-R  | GaP/GaP   | Light Red/Diff   | 25°           |                          | 25   |      | 20  | 2.1                 | 2.8  | 20  | 5               | 4  | 700                  | 100                        |
| MT820-HR | GaAsP/GaP | Light Red/Diff   | 25°           |                          | 90   |      | 20  | 2.1                 | 2.8  | 20  | 100             | 4  | 635                  | 40                         |
| MT820-O  | GaAsP/GaP | Light Org/Diff   | 25°           |                          | 90   |      | 20  | 2.1                 | 2.8  | 20  | 100             | 4  | 610                  | 35                         |
| MT820-Y  | GaAsP/GaP | Light Yell/Diff  | 25°           |                          | 90   |      | 20  | 2.1                 | 2.8  | 20  | 100             | 4  | 585                  | 32                         |
| MT820-G  | GaP/GaP   | Light Grn/Diff   | 25°           |                          | 120  |      | 20  | 2.1                 | 2.8  | 20  | 5               | 4  | 565                  | 25                         |
| MT820-PG | GaP/GaP   | Light Grn/Diff   | 25°           |                          | 60   |      | 20  | 2.1                 | 2.8  | 20  | 5               | 4  | 555                  | 20                         |


**marktech**

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