



**DESCRIPTION**

The **APW-MW2-1210-010** is a two drive line dual emitter oximeter component. The 660nm and 940nm GaAlAs infrared emitters are mounted in a “glob top” low cost ceramic SMT 1210 package. The LEDs are bias separately by alternating polarity on the bias pins.

**FEATURES**

- Low Cost
- 660nm±3nm
- Center Pick Wavelength Binning is Optional
- Two Drive Lines

**RELIABILITY**

Contact API for recommendations on specific test conditions and procedures.

**APPLICATIONS**

- Oximeter Probes
- Finger Clamps
- Reusable Probes

**ABSOLUTE MAXIMUM RATINGS**

| SYMBOL                     | MIN | MAX  | UNITS |
|----------------------------|-----|------|-------|
| Reverse Voltage            | -   | 4    | V     |
| Operating Temperature      | -40 | +80  | °C    |
| Storage Temperature        | -40 | +80  | °C    |
| Soldering Temperature      | -   | +240 | °C    |
| Peak Forward Current       | -   | 200  | nm    |
| Continuous Forward Current | -   | 30   | mA    |
| Maximum Power Dissipation  | -   | 250  | mW    |

T<sub>a</sub> = 23°C unless noted otherwise

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

**TYPICAL PERFORMANCE**

| CHARACTERISTIC       | TEST CONDITIONS       | 660nm |     |     | 940nm |      |     | UNITS |
|----------------------|-----------------------|-------|-----|-----|-------|------|-----|-------|
|                      |                       | MIN   | TYP | MAX | MIN   | TYP  | MAX |       |
| Breakdown Voltage    | $I_f = 10 \mu A$      | 5     | -   | -   | 5     | -    | -   | V     |
| Radiant Flux         | $I_f = 10 \text{ mA}$ | 1.8   | 2.4 | -   | 1.2   | 1.8m | -   | mW    |
| Luminous Intensity   | $I_f = 10 \text{ mA}$ | 20    | 30  | -   | -     | -    | -   | mcd   |
| Forward Voltage      | $I_f = 10 \text{ mA}$ | -     | 1.8 | 2.4 | -     | 1.3  | 1.5 | V     |
| Peak Wavelength      | $I_f = 10 \text{ mA}$ | 658   | 661 | 664 | 930   | 940  | 950 | nm    |
| Rise Time (50Ω load) | $I_f = 10 \text{ mA}$ | -     | 0.8 | -   | -     | 0.8  | -   | ns    |
| Spectral Halfwidth   | $I_f = 10 \text{ mA}$ | -     | 25  | -   | -     | 50   | -   | nm    |
| Fall Time            | $I_f = 10 \text{ mA}$ | -     | 0.8 | -   | -     | 0.8  | -   | ns    |