

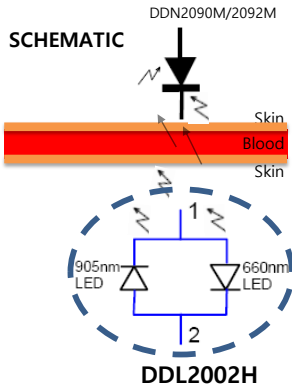


**FEATURES**

- Two Drive Line Dual LED Emitter
- Long time use for **Reusable sensor**
- Chip on Board Mold Package
- Heat sink inside for long term life time

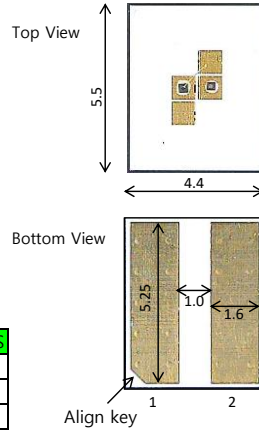
**APPLICATIONS**

- Transmissive** (Reflective)
- Reusable** Oximeter Probes



**Blood Sensor Emitter  
DDL2002H**

**PACKAGE DIMENSION (mm)**  
w x h x t = 4.4 x 5.5 x 1.3



**ABSOLUTE MAX. RATINGS (Ta=25°C unless otherwise noted)**

| SYMBOL | PARAMETER                  | MAX. RATED VALUE | UNITS |
|--------|----------------------------|------------------|-------|
| PD     | Power Dissipation          | 200              | mW    |
| IF     | Continuous Forward Current | 100              | mA    |
| IFP    | Peak Forward Current       | 200              | mA    |
| VR     | Reverse Voltage            | 5                | V     |
| T stg  | Storage Temp               | -20 ~ +85        | °C    |
| T opr  | Operating Temp             | -20 ~ +80        | °C    |
| T sd   | Soldering Temperature*1    | 240              | °C    |

\*Soldering time : t < 3s, \*\*Moisture Sensivity Level 3

\*\*\*Do not soldering on top pads, must soldering on only backside pads

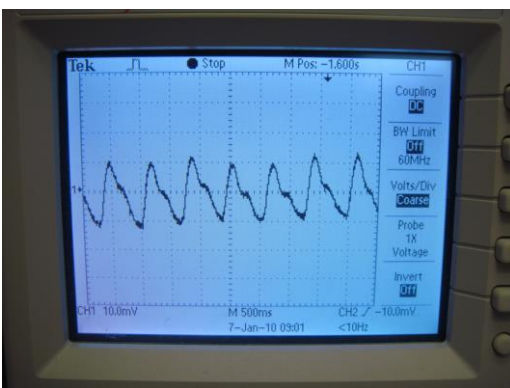
\*\*\*\*Do prebake 150°C 2HRs if reflow SMT

**CHARACTERISTICS (Ta=25°C unless otherwise noted)**

| SYMBOL | CHARACTERISTIC            | COMPONENTS | TEST CONDITION | MIN | TYP | MAX | UNITS |
|--------|---------------------------|------------|----------------|-----|-----|-----|-------|
| VF     | Forward Voltage           | LED1       | IF=20mA        |     | 1.9 | 2.2 | V     |
|        |                           | LED2       |                |     | 1.3 | 1.5 |       |
| IR     | Reverse Breakdown Current | LED1,LED2  | VR=5V          |     |     | 10  | uA    |
| P O    | Output Power              | LED1       | IF=20mA        |     | 1   |     | mW    |
|        |                           | LED2       |                |     | 2   |     |       |
| λ PEAK | Peak Wavelength           | LED1       | IF=20mA        |     | 660 |     | nm    |
|        |                           | LED2       |                |     | 905 |     |       |
| Δλ     | Half Wave Width           | LED1       | IF=20mA        |     | 30  |     | nm    |
|        |                           | LED2       |                |     | 60  |     |       |

**PPG(Photo Plethysmogram) Characteristic**

DDL2002H with DDN2090M



**Packing Information**



Anti Static vinyl bag

Label sticker