

Peak Emission Wavelength: 770nm, 810nm, 850nm

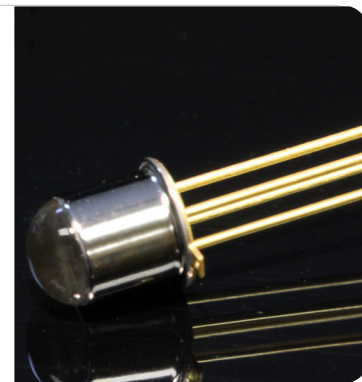
The MTMD7885N24 is a multi-chip emitter designed for applications requiring various emission sources in a small, densely packaged area. These devices can be custom designed for specific wavelengths and outputs.

FEATURES

- > Hermetically Sealed Metal Can Package
- > High Reliability
- > High Output Power

APPLICATIONS

- > Medical Instrumentation
- > Currency Validation
- > Biofluorescence Analysis



Absolute Maximum Ratings (Ta=25°C)



| ITEMS | SYMBOL | RATINGS | | | UNIT |
|------------------------------|--------|---------|------------|-----|------|
| | | 770 | 810 | 850 | |
| Forward Current (DC) | IF | 50 | 100 | 100 | mA |
| Forward Current (Pulse)*1 | IFP | 0.5 | 1 | 1 | A |
| Reverse Voltage | VR | | 5 | | V |
| Power Dissipation | PD | 100 | 80 | 80 | mW |
| Operating Temperature Range | Topr | | -20 ~ +85 | | °C |
| Storage Temperature Range | Tstg | | -30 ~ +100 | | °C |
| Junction Temperature | Tj | | 100 | | °C |
| Lead Soldering Temperature*2 | Tls | | 260 | | °C |

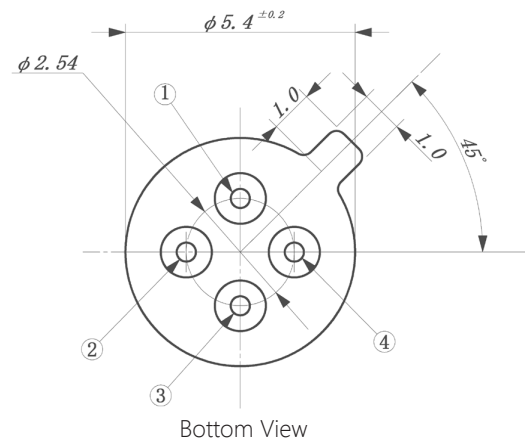
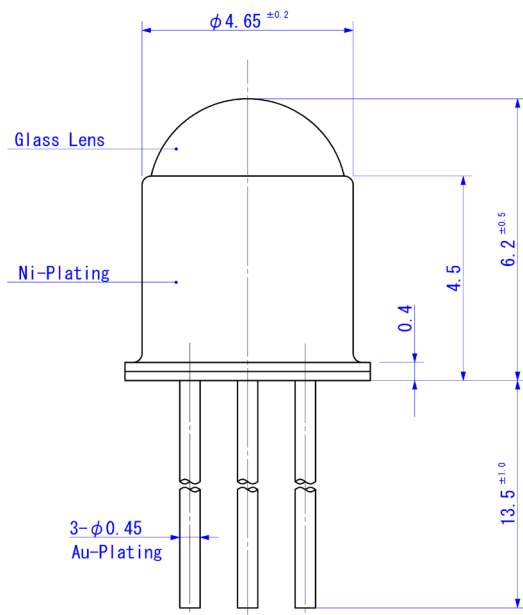
*1: Tw=10µsec, T=10msec. *2: Time 5 Sec max; Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

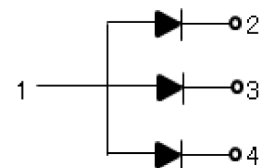
| ITEMS | SYMBOL | WAVELENGTH | CONDITIONS | MIN | TYP | MAX | UNIT |
|--------------------------|--------|------------|------------|-----|------|-----|------|
| Forward Voltage | VF | 770 | IF=20mA | -- | 1.6 | 2.0 | V |
| Forward Voltage | VF | 810 | IF=20mA | -- | 1.55 | 1.9 | V |
| Forward Voltage | VF | 850 | IF=20mA | -- | 1.4 | 1.8 | V |
| Reverse Current | IR | -- | VR=5V | -- | -- | 100 | µA |
| Power Output | PO | 770 | IF=20mA | -- | 3.1 | -- | mW |
| Power Output | PO | 810 | IF=20mA | -- | 3.0 | -- | mW |
| Power Output | PO | 850 | IF=20mA | -- | 2.7 | -- | mW |
| Peak Emission Wavelength | λp | 770 | IF=20mA | -- | 770 | -- | nm |
| Peak Emission Wavelength | λp | 810 | IF=20mA | -- | 810 | -- | nm |
| Peak Emission Wavelength | λp | 850 | IF=20mA | -- | 850 | -- | nm |
| Spectral Line Half Width | Δλ | 770 | IF=20mA | -- | 35 | -- | nm |
| Spectral Line Half Width | Δλ | 810 | IF=20mA | -- | 30 | -- | nm |

Electrical & Optical Characteristics (Ta = 25°C) (Continued)

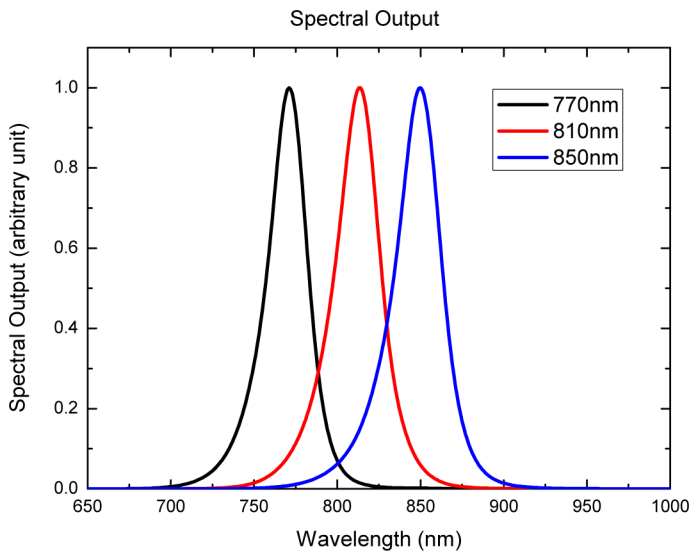
| ITEMS | SYMBOL | WAVELENGTH | CONDITIONS | MIN | TYP | MAX | UNIT |
|--------------------------|-----------------|------------|------------|-----|-----|-----|------|
| Spectral Line Half Width | $\Delta\lambda$ | 850 | IF=20mA | -- | 35 | -- | nm |



- 1 — Anode Common
- 2 — 850nm Cathode
- 3 — 810nm Cathode
- 4 — 770nm Cathode



Unit: mm, Tolerance: ± 0.2



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