

## Excellent Integrated System Limited

Stocking Distributor

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[Marktech Optoelectronics](#)

[MTMS7700T38](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## Peak Emission Wavelength: 770nm (6)

The MTMS7700T38 is a multi-chip emitter designed for applications requiring same emission sources in a small, densely packaged area. These devices can be custom designed for specific wavelengths and outputs.

### FEATURES

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

### APPLICATIONS

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



## Absolute Maximum Ratings (Ta=25°C)

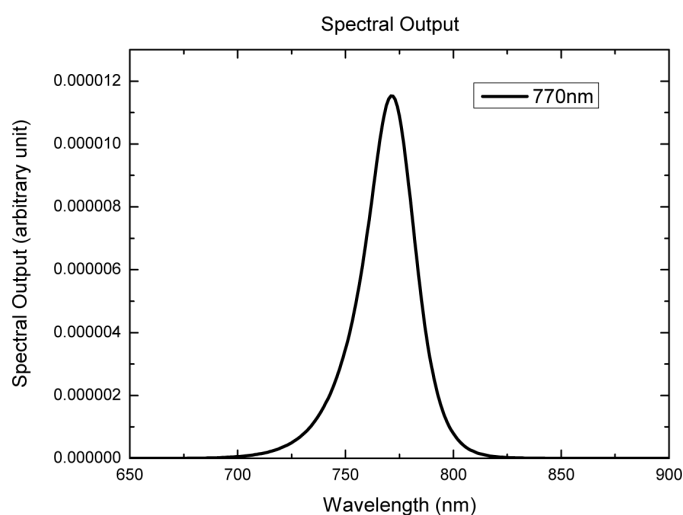
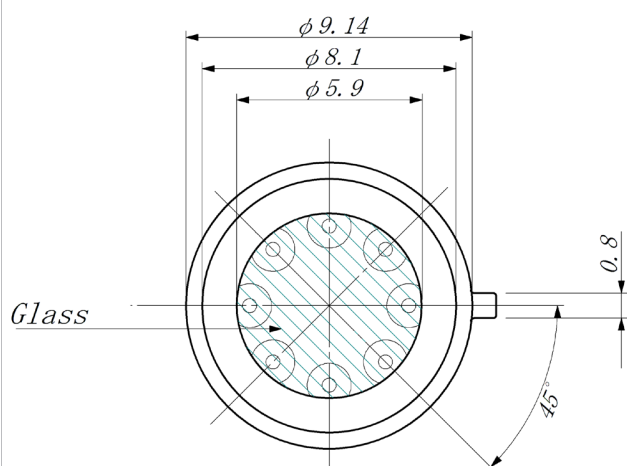
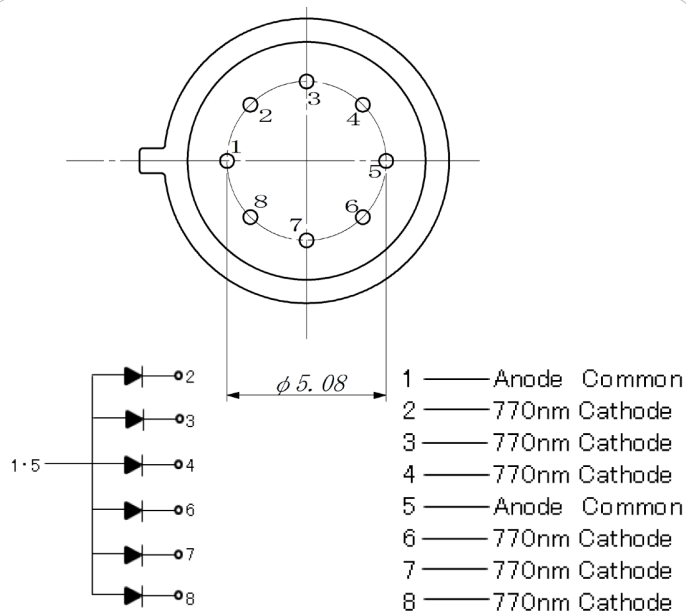
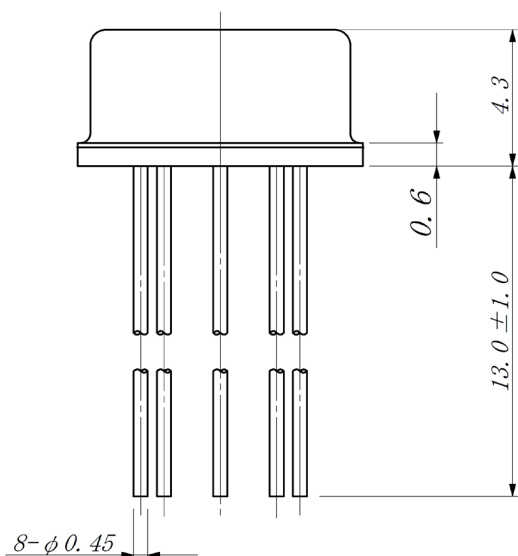


| ITEMS                        | SYMBOL | RATINGS    | UNIT |
|------------------------------|--------|------------|------|
| Forward Current (DC)         | IF     | 50         | mA   |
| Forward Current (Pulse)*1    | IFP    | 0.5        | A    |
| Reverse Voltage              | VR     | 5          | V    |
| Power Dissipation            | PD     | 100        | mW   |
| Operating Temperature Range  | Topr   | -20 ~ +80  | °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)(Per Chip)

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



Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

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