

## Peak Emission Wavelength: 950nm (6)

The MTMS9400T38 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 Package
- > High Reliability
- > High Output Power

### APPLICATIONS

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



## Absolute Maximum Ratings (Ta=25°C)

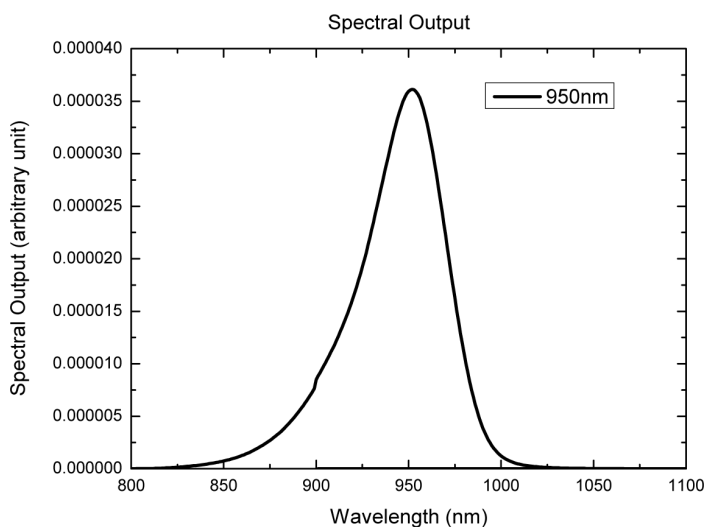
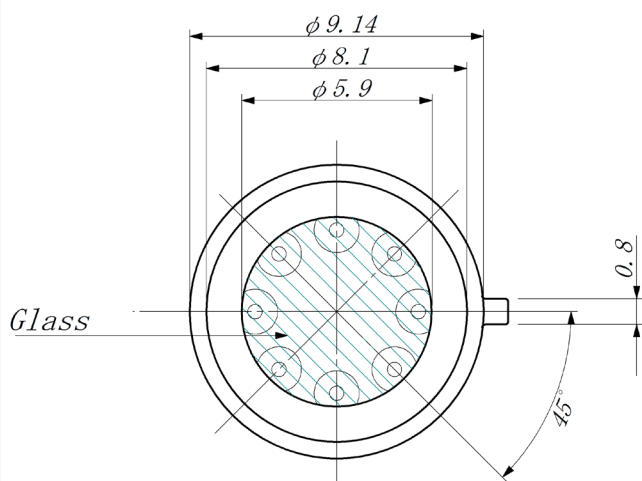
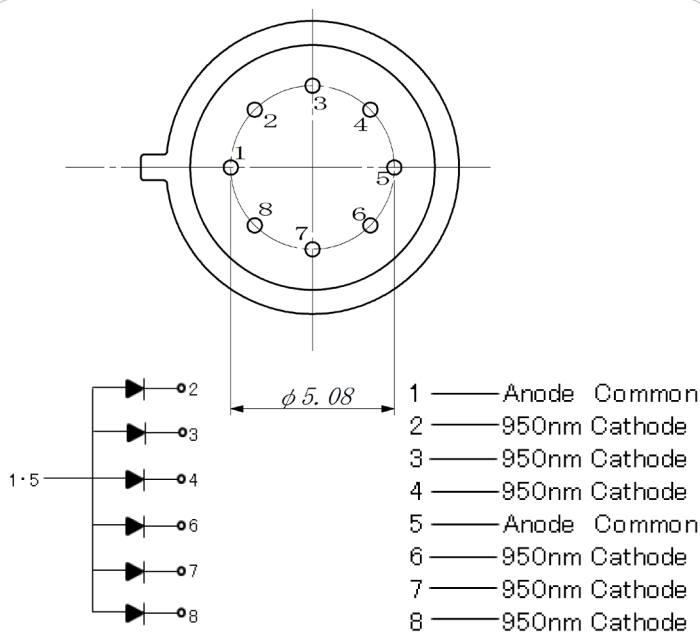
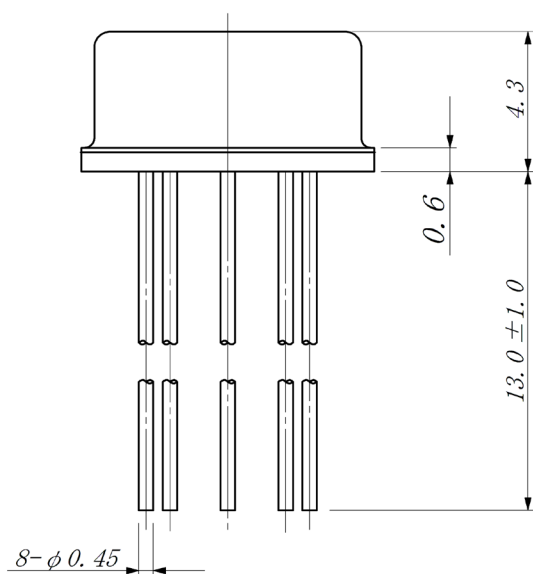


| ITEMS                        | SYMBOL | RATINGS    | UNIT |
|------------------------------|--------|------------|------|
| Forward Current (DC)         | IF     | 100        | mA   |
| Forward Current (Pulse)*1    | IFP    | 1          | A    |
| Reverse Voltage              | VR     | 5          | V    |
| Power Dissipation            | PD     | 190        | 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)(Per Chip)

| ITEMS                    | SYMBOL | CONDITIONS | MIN | TYP  | MAX | UNIT |
|--------------------------|--------|------------|-----|------|-----|------|
| Power Output             | PO     | IF=50mA    | --  | 18.0 | --  | mW   |
| Forward Voltage          | VF     | IF=50mA    | --  | 1.3  | 1.9 | V    |
| Reverse Current          | IR     | VR=5V      | --  | --   | 10  | μA   |
| Peak Emission Wavelength | λp     | IF=50mA    | --  | 950  | --  | nm   |
| Spectral Line Half Width | Δλ     | IF=50mA    | --  | 45   | --  | nm   |



Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

2014-01-14

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Marktech Optoelectronics:](#)

[MTMS9400T38](#)