Marktech Optoelectronics

Multichip Emitter

Product No: **MTMS8800T38**

Peak Emission Wavelength: 880nm (6)

The MTMS8800T38 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)

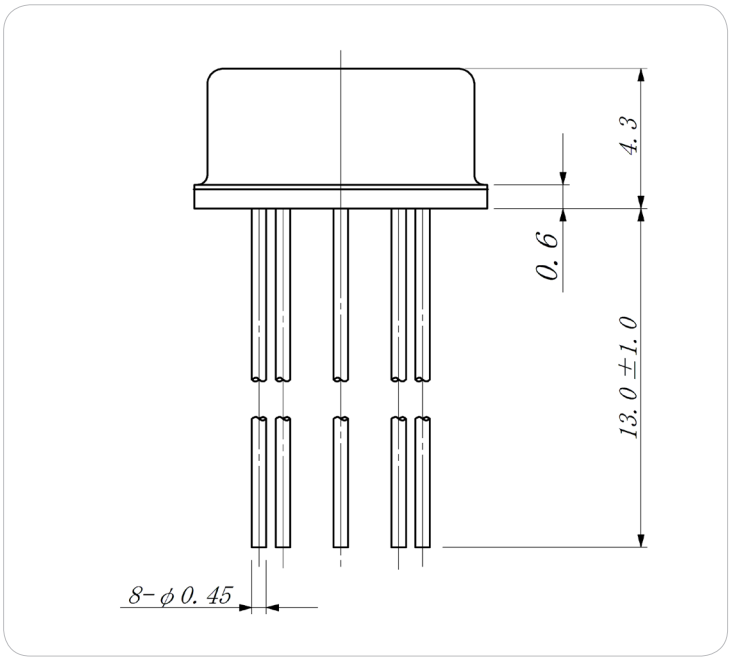
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	180	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Junction Temperature	Tj	100	°C
Lead Soldering Temperature*2	Tls	260	°C

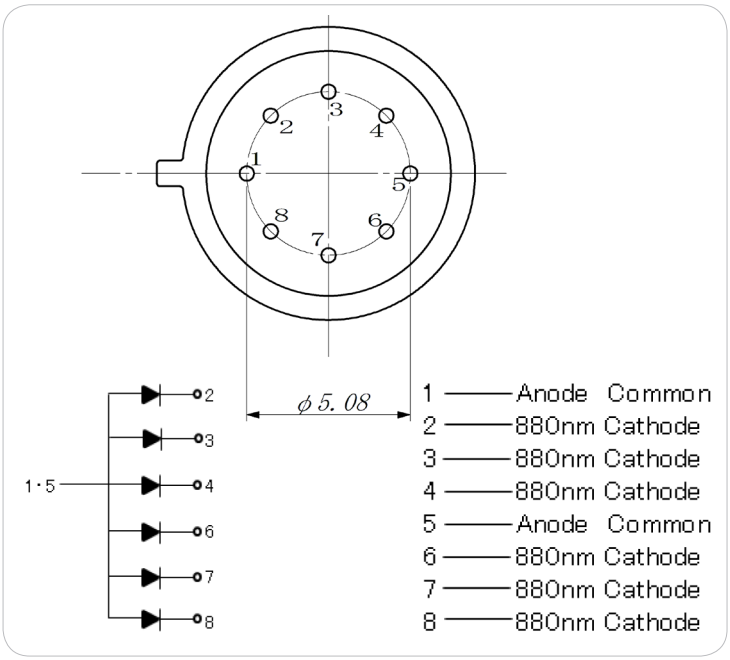
*1: Tw=10μsec, T=10msec. *2: Time 5 Sec max, Position: Up to 3mm from the body.

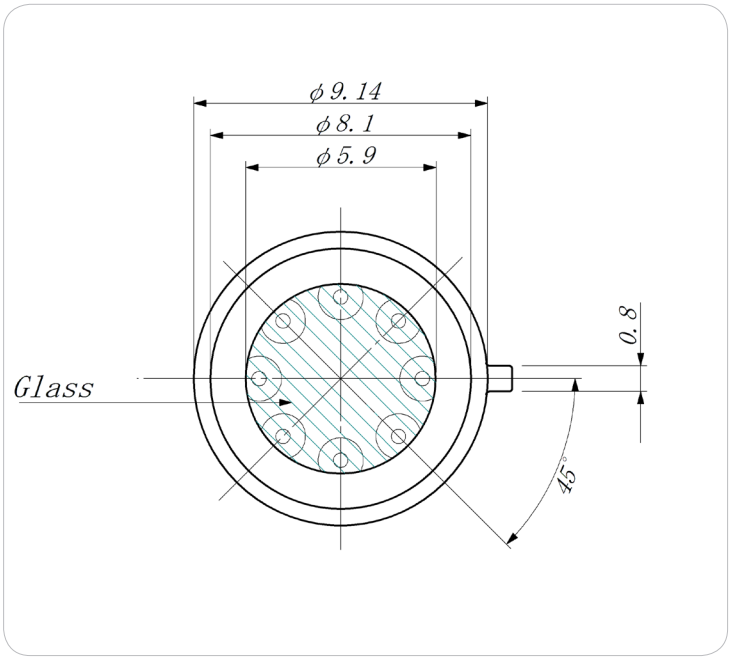
Electrical & Optical Characteristics (Ta = 25°C)(Per Chip)

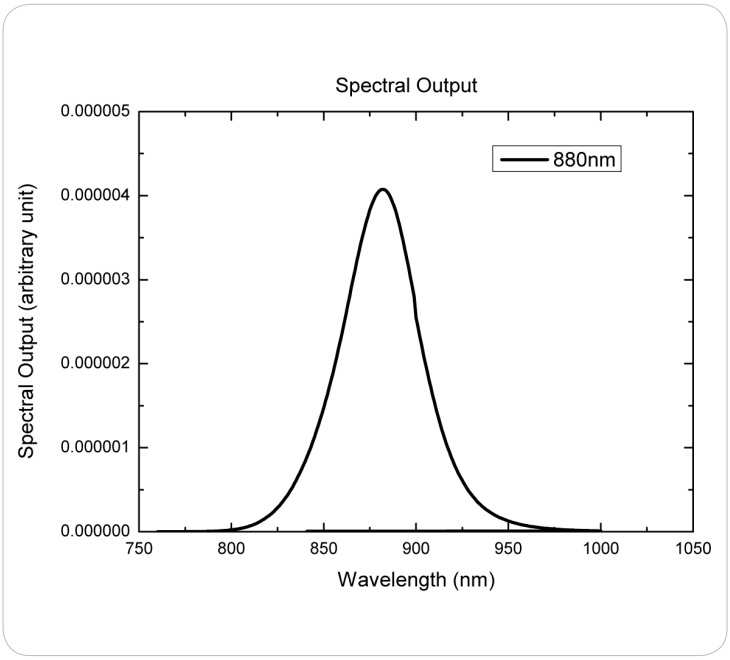
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	4.5	--	mW
Forward Voltage	VF	IF=20mA	--	1.4	1.8	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=20mA	--	880	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	60	--	nm

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Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

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