

Peak Emission Wavelength: 527nm

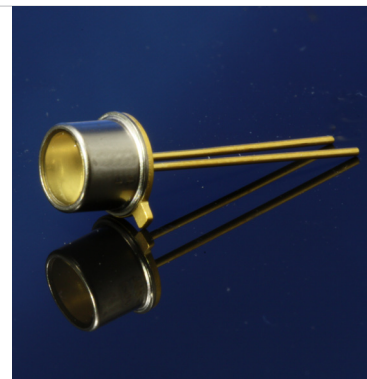
The MTE5270W-UBG visible emitter is designed for applications requiring high output power. Custom package solutions and sorting are available.

FEATURES

- > TO-18 Metal Can Package
- > High Output
- > High Reliability
- > Wide Beam Angle
- > Using Cree EZ950 Series Die

APPLICATIONS

- > Industrial Equipment
- > Medical
- > Machine Vision
- > Currency Validation
- > Light Source For Sensors



Absolute Maximum Ratings (Ta=25°C)



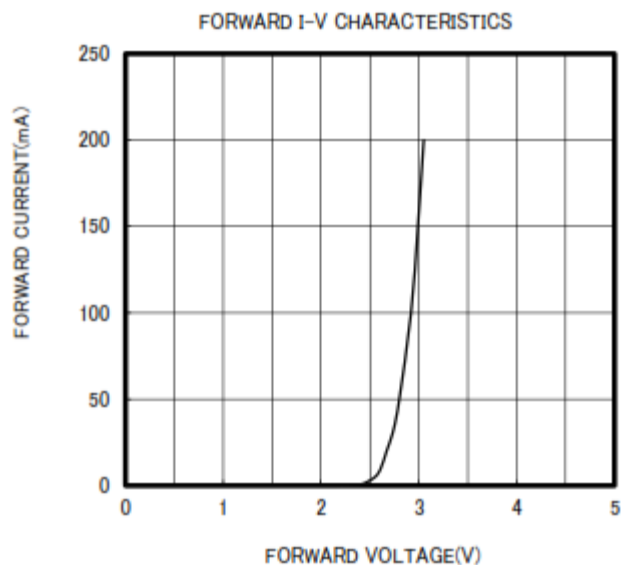
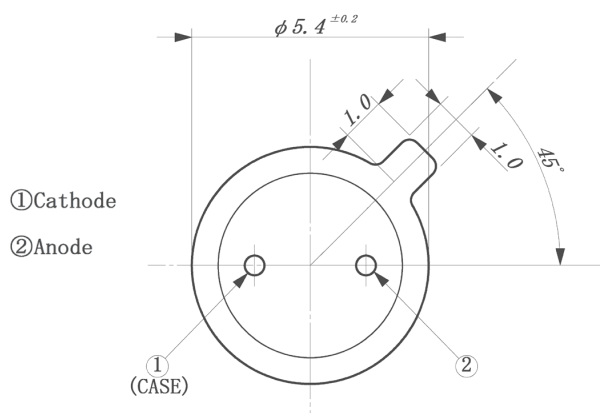
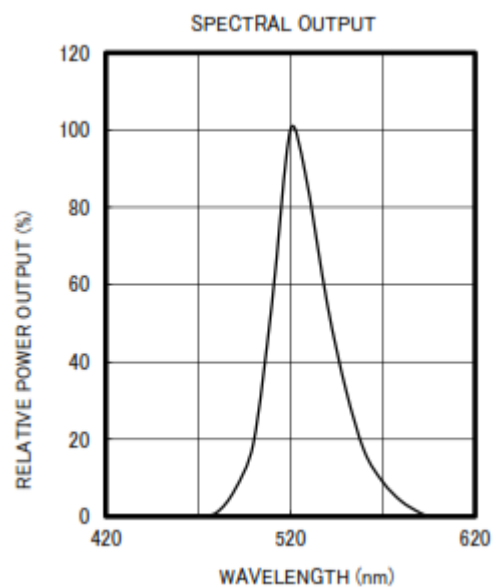
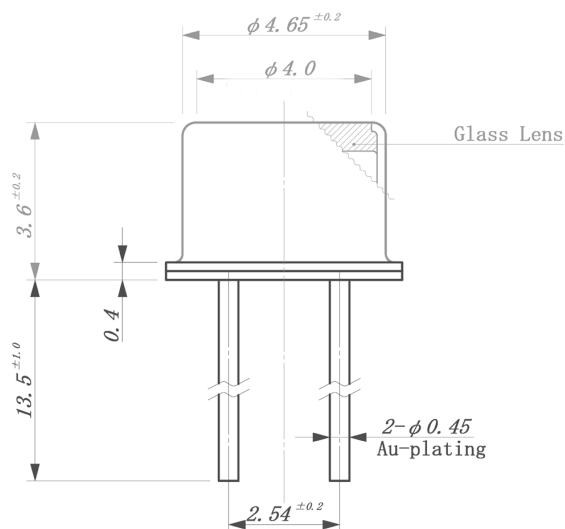
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC) *3	IF	200	mA
Forward Current (Pulse) *1	IFP	2	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	700	mW
Operating Temperature Range	Topr	-20 ~ +80	°C
Storage Temperature	Tstg	-30 ~ +100	°C
Lead Soldering Temperature *2	Tls	260	°C

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

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=50mA	--	30	--	mW
Power Output	PO	IF=100mA	--	50	--	mW
Forward Voltage	VF	IF=50mA	--	2.8	3.5	V
Reverse Current	IR	VR=5V	--	--	10	μA
Peak Emission Wavelength	λp	IF=50mA	--	520	--	nm
Dominant Emission Wavelength	λd	IF=50mA	--	530	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	35	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	±50	--	deg

Package Dimensions



Unit: mm, Tolerance: ± 0.2

Characteristic Curves (Ta = 25°C)

