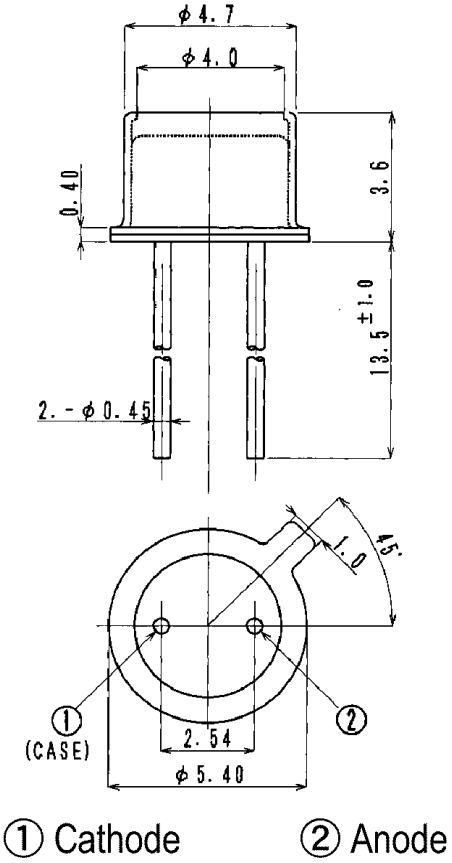
Metal Can Green Emitter

MT5050W−UG



Features

High Output Power
High Reliability
Blue−Green Color

Applications

Color Sensor
Paper Sensor
Bar Code Reader
Fiber Optics

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Test Condition	Unit
Forward Current	I_F	30	−	mA
Pulsed Forward Current	I_{FP}	.30	tw=10μ S, T=10mS	A
Reverse Voltage	V_R	5	−	V
Power Dissipation	P_D	120.00	−	mW
Operating Temperature	T_{opr}	−20~+85	−	°C
Storage Temperature	T_{stg}	−30 ~+100	−	°C
Junction Temperature	T_j	100	−	°C
Soldering Temperature	T_{sol}	260	for 5 sec. max	°C

Opto−Electrical Characteristics (Ta=25°C)

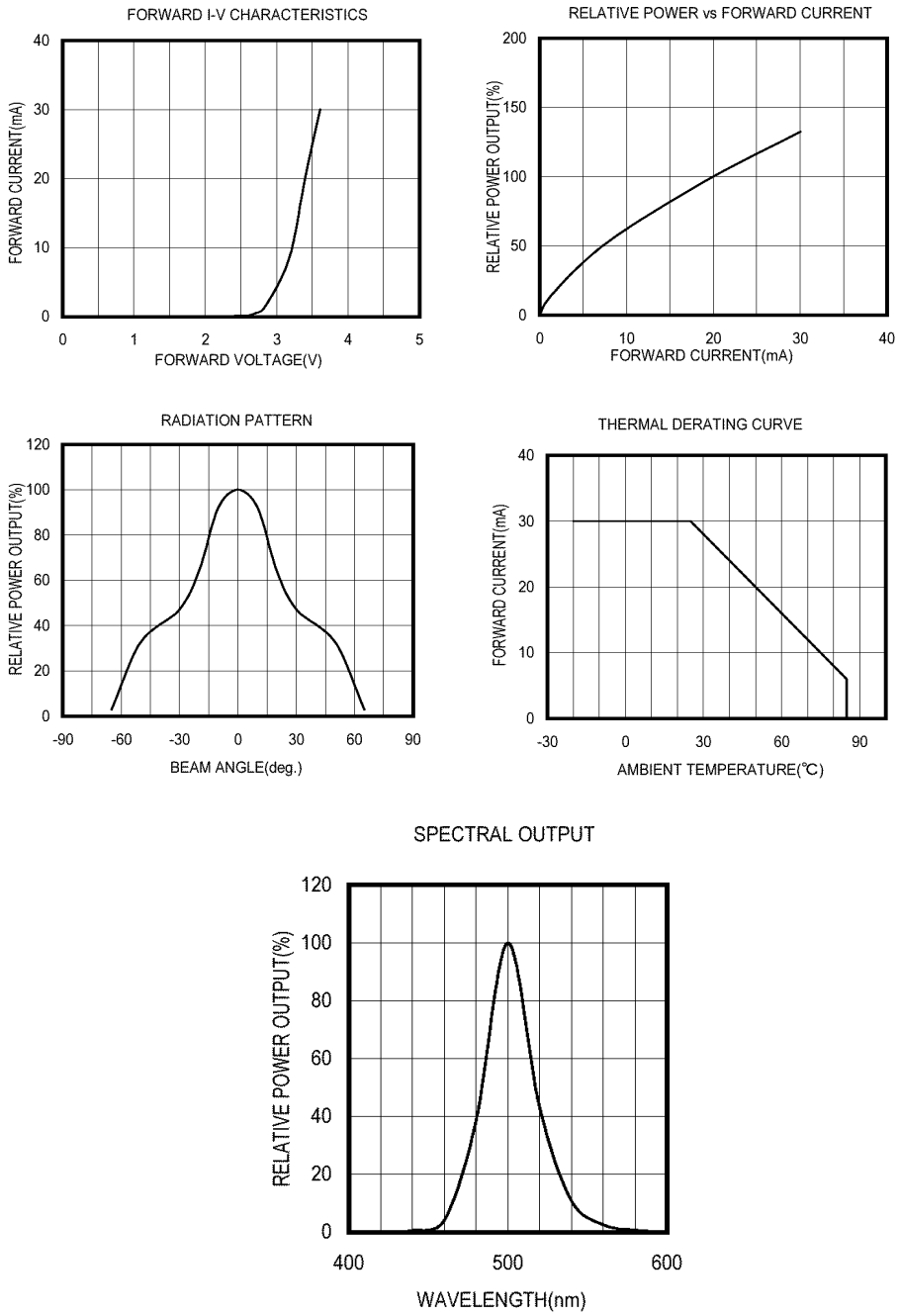
Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	−	3.40	4.00	V
Reverse Current	I_R	V_R=5V	−	−	100	μA
Power Output	PO	I_F=20mA	−	1.60	−	mW
Half Intensity Beam Angle	θ	−	−	± 28°	−	deg.
Peak Wavelength	λp	I_F=20mA	−	500	−	nm
Dominant Wavelength	λd	I_F=20mA	−	505	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	35	−	nm

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MT5050W−UG Graphs



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