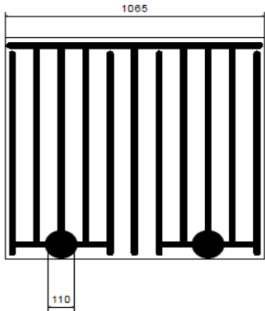


Radiation	Type	Electrodes
Red	MQW AlInGaP/Si	N (Cathode) up



typ. dimension in μm ($\pm 25\mu\text{m}$)

typ. thickness 225

cathode gold alloy

anode gold alloy

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

ITEMS	SYMBOL	RATINGS	UNIT
Forward DC Current	I_f	≤ 500	mA
Reverse Voltage	V_r	≤ 10	V
Junction Temperature	T_j	≤ 115	$^\circ\text{C}$
Storage Temperature	T_{stj}	-40 to +85	$^\circ\text{C}$

Electrical & Optical Characteristics ($T_a = 25^\circ\text{C}$)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V_f	$I_f=20\text{mA}$	--	1.8	2.3	V
Forward Voltage	V_f	$I_f=350\text{mA}$	--	2.2	3.0	V
Reverse Voltage	V_r	$I_r=5\mu\text{A}$	10	--	--	V
Power Output	PO	$I_f=350\text{mA}$	110	--	150	mW
Luminous Intensity	I_v	$I_f=20\text{mA}$	370	500	--	mcd
Luminous Intensity	I_v	$I_f=350\text{mA}$	9000	11000	--	mcd
Peak Wavelength	λ_p	$I_f=350\text{mA}$	--	635	--	nm
Dominant Wavelength	λ_d	$I_f=350\text{mA}$	619	624	629	nm
Spectral Bandwidth at 50%	$\Delta\lambda_{0.5}$	$I_f=350\text{mA}$	--	20	--	nm



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.