

Data sheet

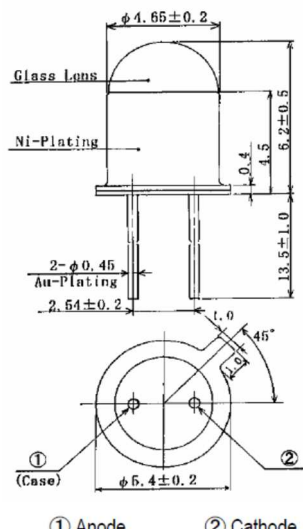
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UV LED

EOLD-365-012

Rev. 05, 2020

Radiation	Type	Case
Ultraviolet	GaN	Metal TO-46 package with lens

  All dimensions in mm		Description: High output power Narrow beam angle High reliability
Applications: Color sensor (money-bill) Paper sensor (money-bill) Barcode reader		

Maximum Ratings

 $T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified


Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	15	mA
Pulse forward current	$t = 10 \mu\text{s}, T = 10 \text{ ms}$	I_{FP}	30	mA
Reverse voltage		V_R	5	V
Reverse current	$V_R = 5 \text{ V}$	I_R	80	mA
Power dissipation		P_D	60	mW
Operating temperature range		T_{amb}	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +100	$^{\circ}\text{C}$
Junction temperature		T_J	100	$^{\circ}\text{C}$
Lead soldering temperature	< 5 s, > 3 mm from the body	T_{slg}	260	$^{\circ}\text{C}$

Optical and Electrical Characteristics

 $T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

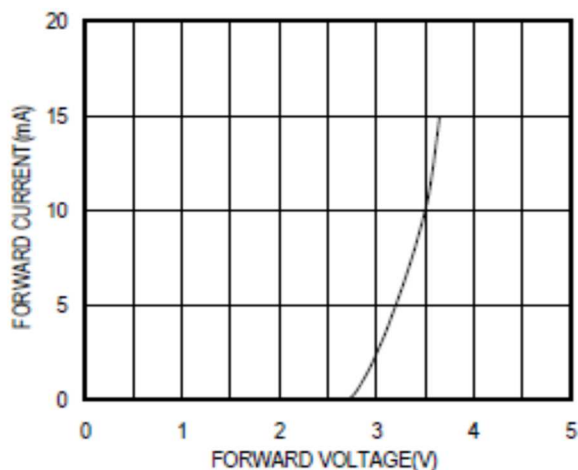
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 10 \text{ mA}$		3.5		V
Radiant power	Φ_e	$I_F = 10 \text{ mA}$		1.5		mW
Peak wavelength	λ_p	$I_F = 10 \text{ mA}$		365		nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 10 \text{ mA}$		15		nm
Viewing angle	ϕ	$I_F = 10 \text{ mA}$		10		deg.

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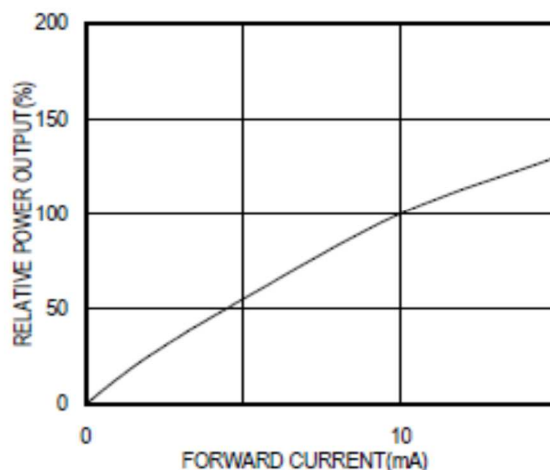
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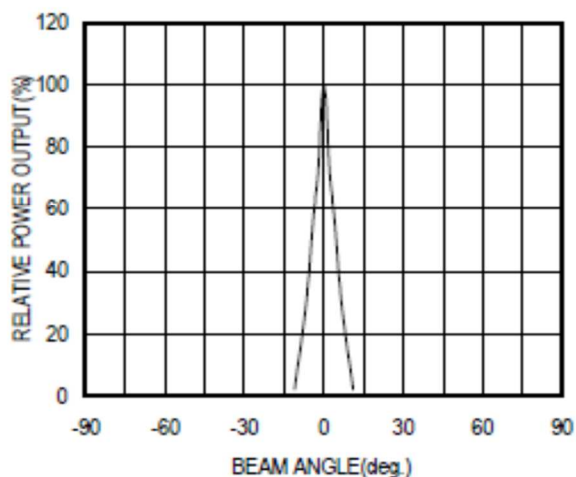
FORWARD I-V CHARACTERISTICS



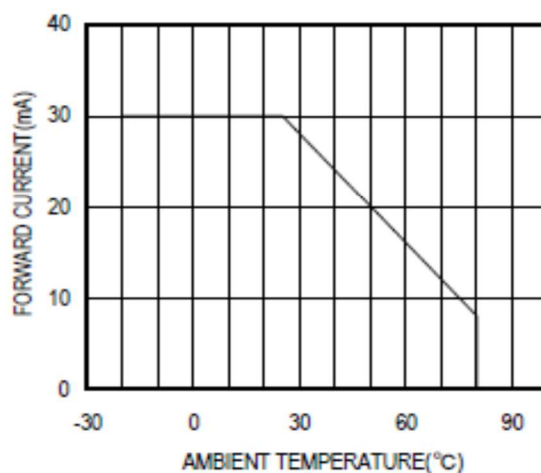
RELATIVE POWER vs FORWARD CURRENT



RADIATION PATTERN



THERMAL DERATING CURVE



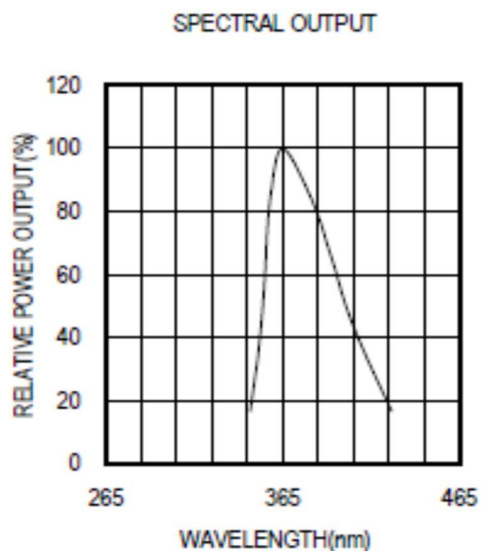
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Art. No. 134 054



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.