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Data sheet

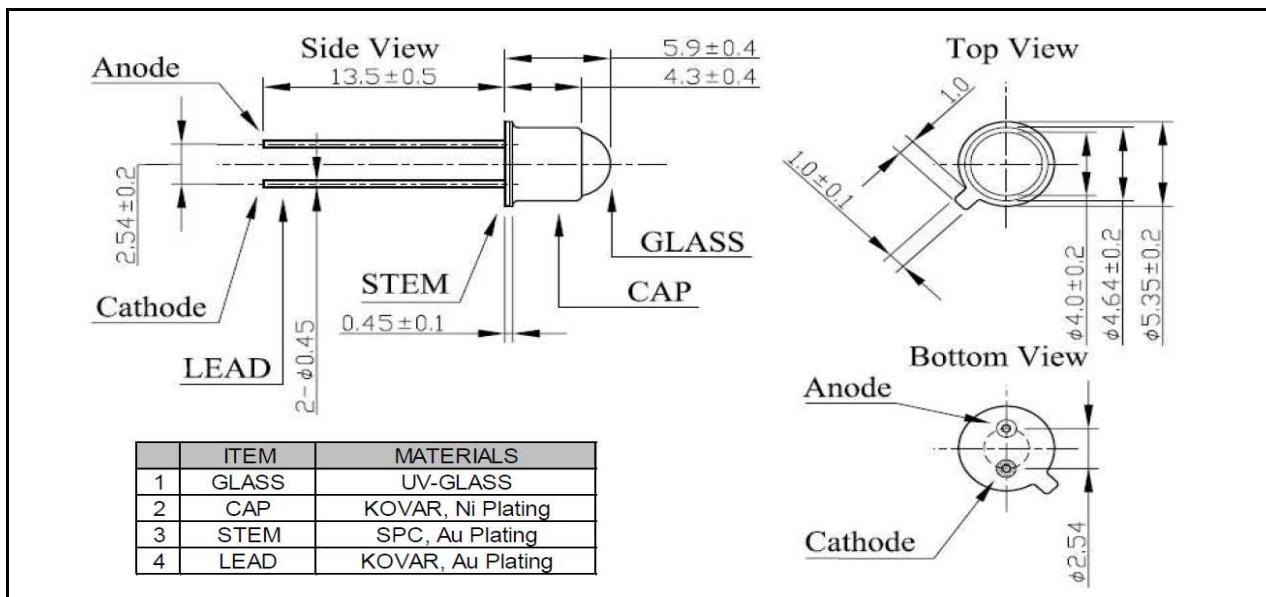
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UV LED

EOLD-340-013

Rev. 04, 2017

Radiation	Type	Case
Ultraviolet (UVA)	AlGaIn	metal TO-46 package with lens



anode, connected with case
 cathode, isolated from case

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	40	mA
Reverse voltage		V_R	>10	V
Reverse current		I_R	<1	μA
Operating temperature range		T_{amb}	-30 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-40 to +100	$^{\circ}\text{C}$
Lead soldering temperature	< 5 s	T_{slg}	300	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$		4		V
Radiant power	Φ_e	$I_F = 20 \text{ mA}$		0.8		mW
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	335	340	345	nm
Viewing angle	φ	$I_F = 20 \text{ mA}$		6		deg.
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		9		nm
Rise time / fall time*	t_r, t_f	$I_F = 200 \text{ mA}$		12; 8		ns

*Test conditions: frequency=100 kHz, duty=1%

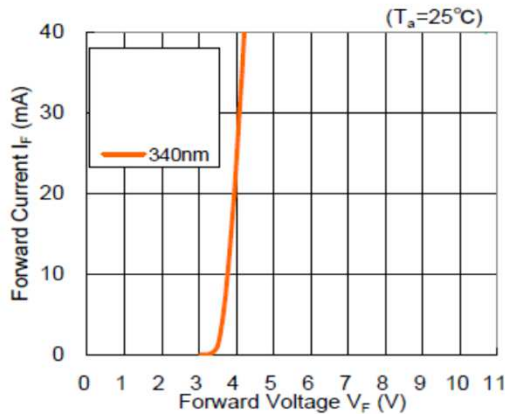
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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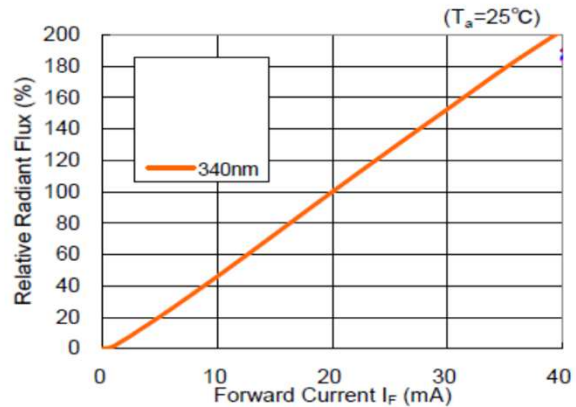
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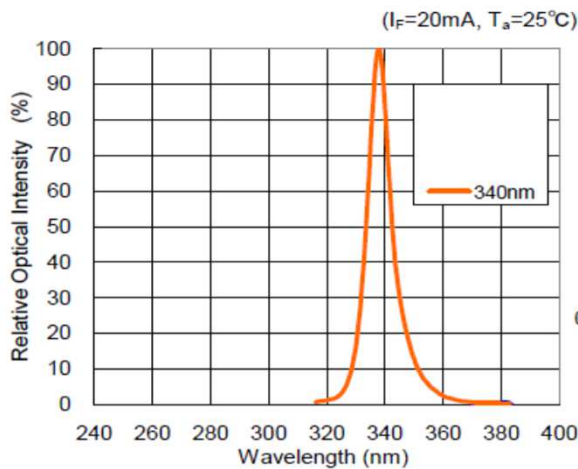
Forward Current vs Forward Voltage



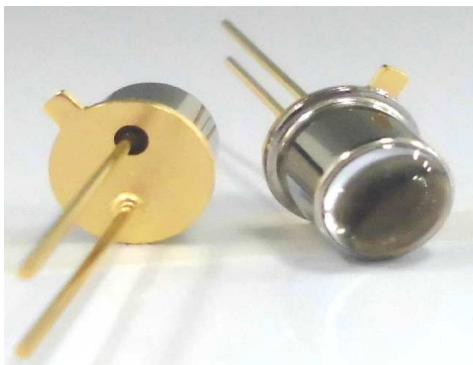
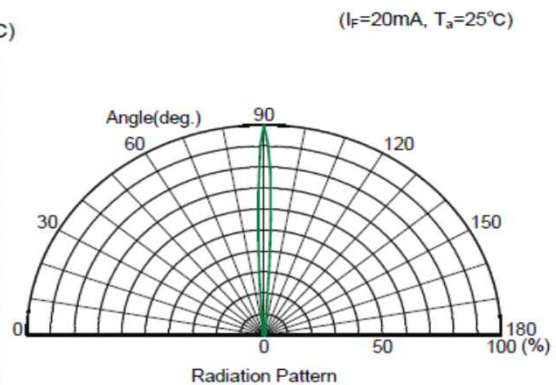
Radiant Flux vs Forward Current



Relative Intensity vs Peak Wavelength



Radiation Pattern



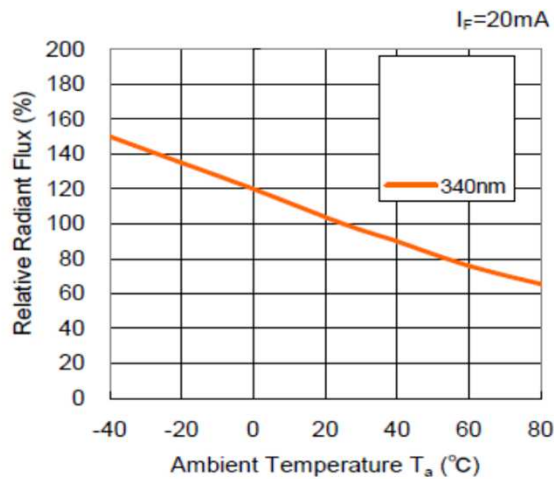
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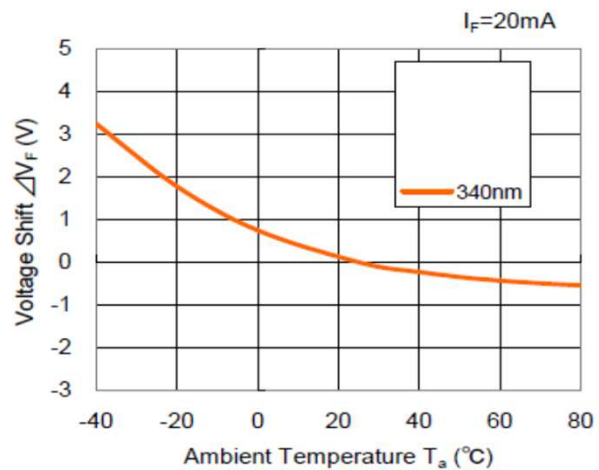
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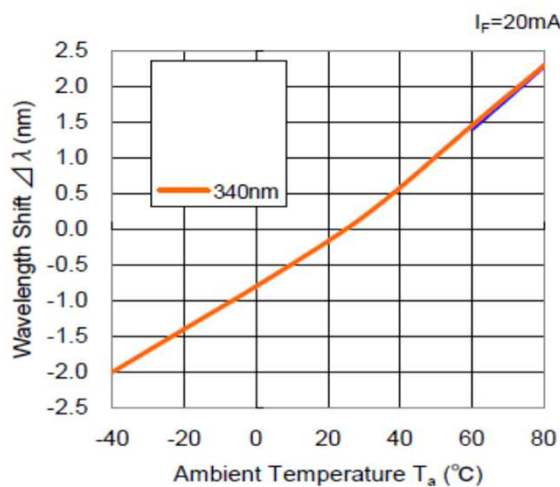
Radiant Flux vs Ambient Temperature



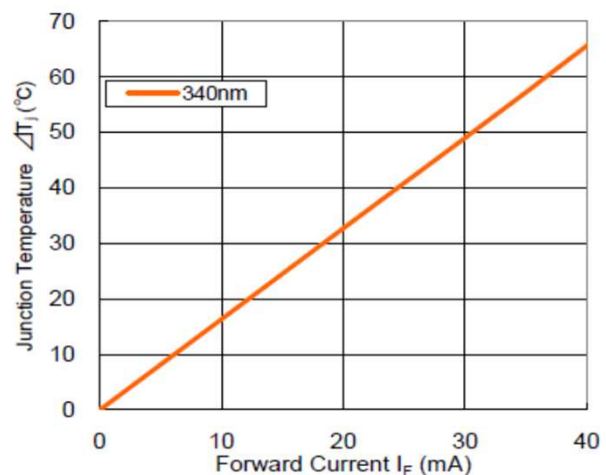
Voltage Shift vs Ambient Temperature



Wavelength Shift vs Ambient Temperature



Junction Temperature vs Forward Current



Art. No. 134 076



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