

Radiation	Type	Technology	Case
Violet	Standard	InGaN	TO-66

	Description
	<p>High-power blue LED-Chip on TO-66 package</p> <p>Note: Special packages without standoff available on request</p>
	<p><b>Applications</b></p> <p>Illumination, safety equipment, automation, biotechnology</p>

### Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		$I_F$	500	mA
Operating temperature range		$T_{amb}$	-40 to +85	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-40 to +85	$^{\circ}\text{C}$
Junction temperature		$T_J$	125	$^{\circ}\text{C}$

### Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 350 \text{ mA}$	$V_F$		3.1	3.5	V
Forward voltage <sup>1</sup>	$I_F = 500 \text{ mA}$	$V_F$		3.2		V
Reverse voltage	$I_R = 100 \mu\text{A}$	$V_R$	5			V
Radiant power	$I_F = 350 \text{ mA}$	$\Phi_e$	120	170		mW
Radiant power <sup>1</sup>	$I_F = 500 \text{ mA}$	$\Phi_e$		240		mW
Peak wavelength	$I_F = 500 \text{ mA}$	$\lambda_p$	415	425	435	nm
Spectral bandwidth at 50%	$I_F = 350 \text{ mA}$	$\Delta\lambda_{0.5}$		20		nm
Viewing angle	$I_F = 350 \text{ mA}$	$\varphi$		115		deg.
Switching time	$I_F = 350 \text{ mA}$	$t_r, t_f$		30		ns

<sup>1</sup>for information only

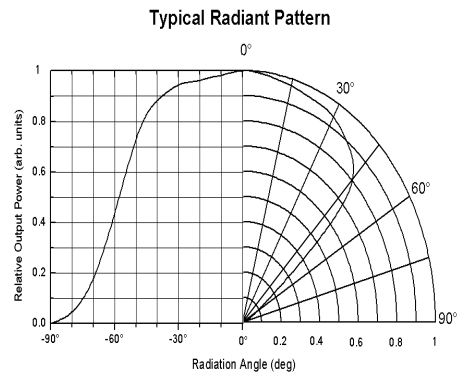
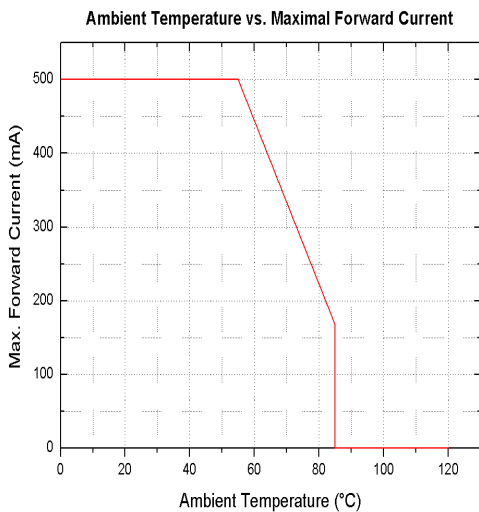
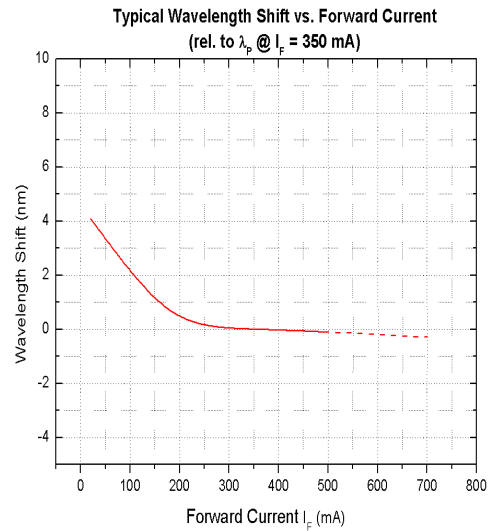
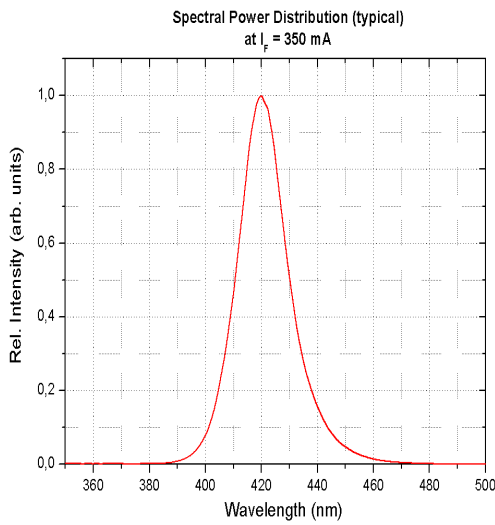
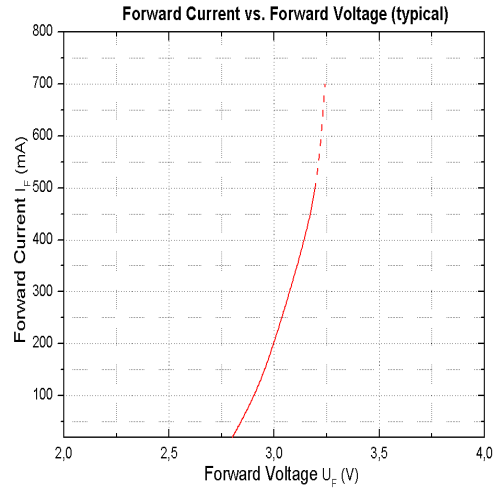
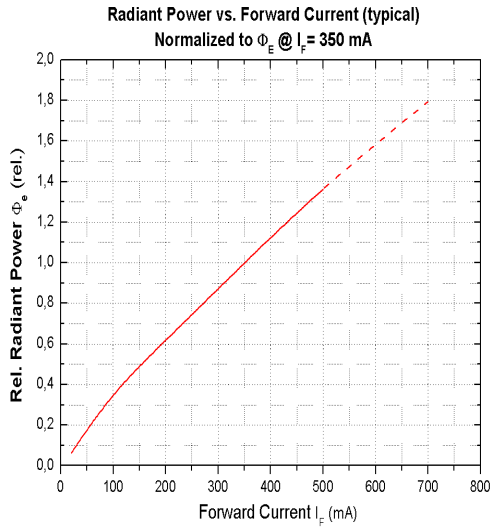
Note: All measurements carried out on *EPIGAP* equipment

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 application by the customers themselves.

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