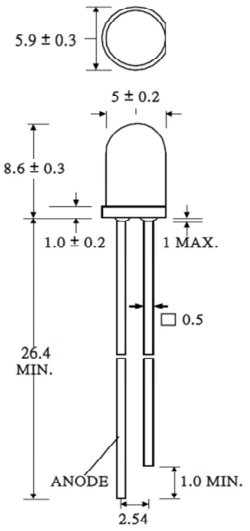
EPIGAP Optronic GmbH
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

Data sheet

Green LED — EOLD-525-524

Rev. 03, 2017

Radiation	Type	Case
Green	InGaN	5 mm plastic lens



All dimensions in mm

Description:

- Super bright LED
- Emitted color: green
- High luminous intensity
- Without stand-off

RoHS COMPLIANT — Pb-Free

Maximum Ratings

T_{amb}= 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation		P_D	120	mW
Peak forward current	Duty cycle 1/10 @ 1 kHz	I_{FP}	100	mA
Continous forward current		I_F	30	mA
Reverse voltage		V_R	5	V
Operating temperature range		T_{amb}	-40 to +85	°C
Storage temperature range		T_{stg}	-40 to +85	°C
Lead soldering temperature	t =3 s, 1.6 mm from case	T_{slg}	260	°C

Optical and Electrical Characteristics

T_{amb}= 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20 mA		3.2	3.8	V
Reverse current	I_R	V_R=5 V			10	µA
Peak wavelength	λ_p	I_F= 20 mA		528		nm
Dominant wavelength	λ_D	I_F= 20 mA		525		nm
FWHM	$\Delta\lambda_{0.5}$	I_F= 20 mA		30		nm
Viewing angle	φ	I_F= 20 mA		15		deg.
Luminous intensity	I_V	I_F= 20 mA	12000	18000		mcd

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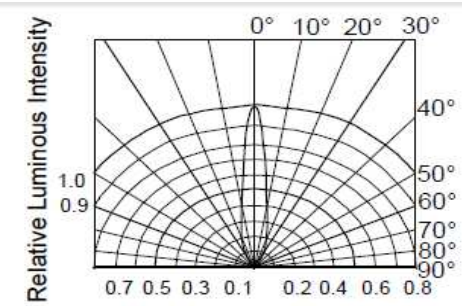
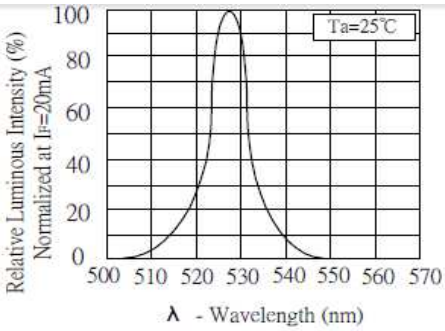
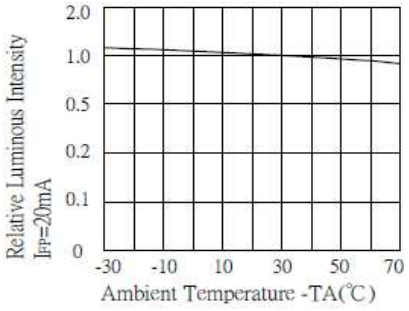
Green LED **EOLD-525-524** Rev. 03, 2017



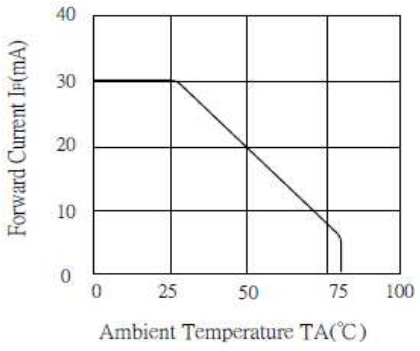
RADIATION DIAGRAM



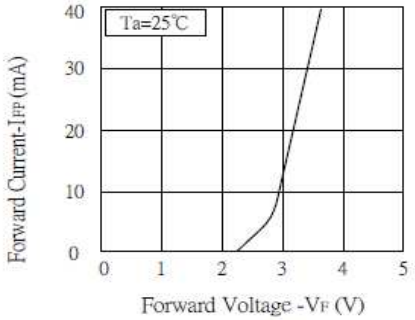
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



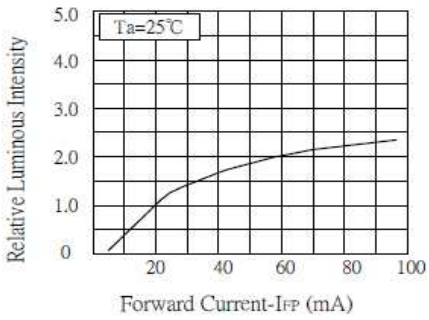
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

Art. No. 132 025