EPIGAP Optronic GmbH
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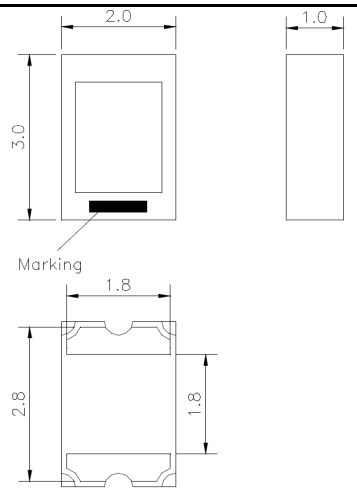
Data Sheet

Violet SMD-LED EOLS-430-392

Rev. 02, 2017

Radiation	Type	Case
Violet	GaN / sapphire	SMD 3020 (1208)



Description:

- Size 3.0 (W) x 2.0 (L) x 1.0 (H) mm
- Circuit substrate: AI2O3 ceramics, silicone encapsulation
- Devices are RoHS conform
- Lead free solderable, soldering pads: gold plated

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	20	mA
Peak forward current	$t_p \leq 100$ µs, τ=1/10	I_{FM}	100	mA
Reverse voltage		V_R	5	V
Thermal resistance		R_{thJA}	60	K/W
Operating temperature range		T_{amb}	-40 to +85	°C
Storage temperature range		T_{stg}	-40 to +100	°C

Optical and Electrical Characteristics

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

Parameter	Test cond.	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=20 mA	V_F		3.5	3.8	V
Reverse current	V_R=5 V	I_R			1	µA
Radiant power	I_F=20 mA	Φ_e		16	32	mW
Radiant intensity	I_F=20 mA	I_e		3.35	6.7	mW/sr
Luminous flux	I_F=20 mA	Φ_v		0.12	0.24	lm
Luminous intensity	I_F=20 mA	I_v		32	64	mcd
Peak wavelength	I_F=20 mA	λ_p	425	428	430	nm
FWHM	I_F=20 mA	$\Delta\lambda$		15	30	nm

RoHS COMPLIANT Pb Pb-Free

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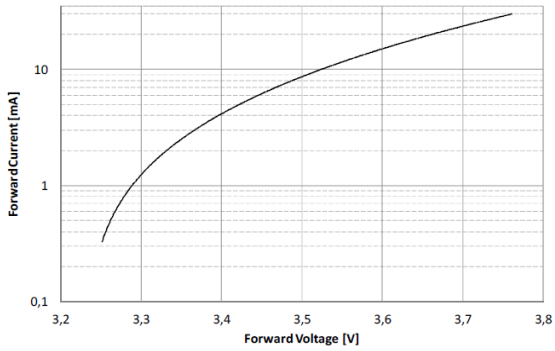
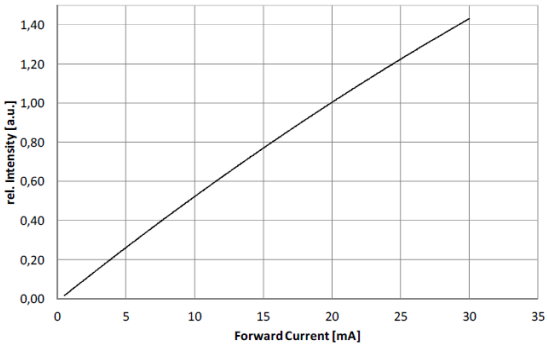
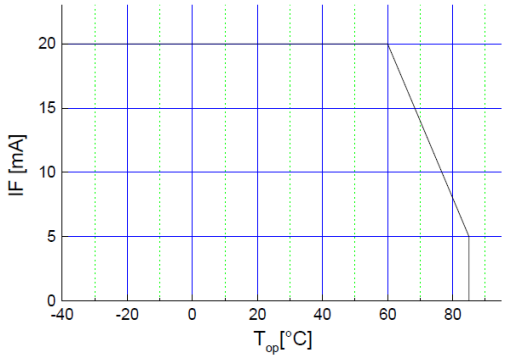


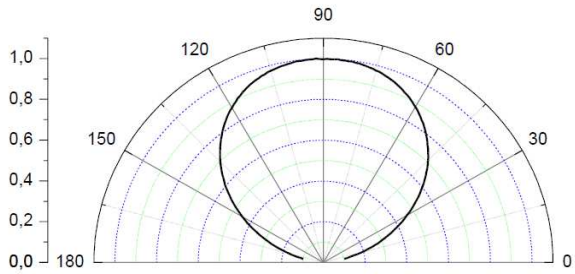
Forward Current vs. Forward Voltage
Flussstrom über Flussspannung



Intensity vs. Forward Current
Strahlstärke über Flussstrom



Maximum Forward Current vs. Ambient Temprature
Max. Flussstom über Umgebungstemperatur



View Angle
Abstahlung

RoHS COMPLIANT Pb-Free

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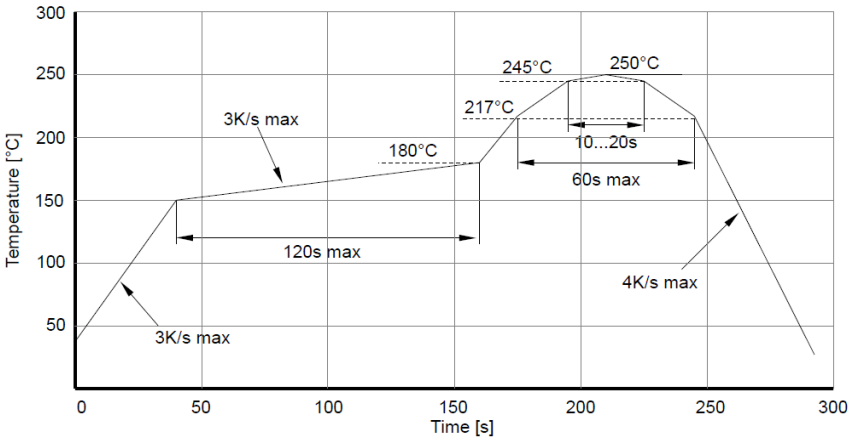

IR reflow soldering profile for lead free soldering

IR Reflow Lötprozess für bleifreies Lot

Art. No. 133 082