



Data Sheet

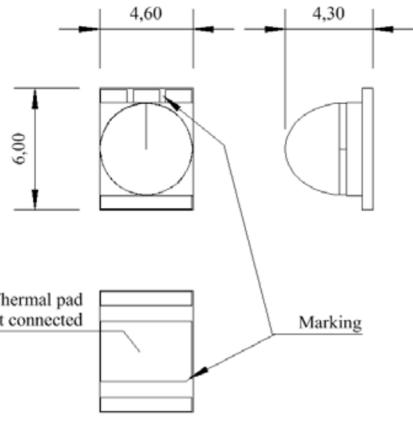
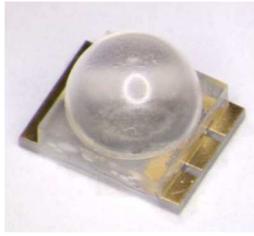
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High Power LED

EOLS-545-227

Rev. 04, 2018

Radiation	Type	Case
Greenish	InGaN with phosphor	SMD 6046 (2418), ceramics

	
Description: <ul style="list-style-type: none"> - size: 6.0(L) x 4.6(W) x 4.3(H) mm - high pulse current up to 1000 mA - with lens, view angle 20° - soldering pads: gold plated; only for reflow soldering - marking at anode 	

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I _F	700	mA
Peak forward current	t _p ≤ 100 µs, τ=1:10	I _{FM}	1000	mA
Reverse voltage		V _R	5	V
Thermal resistance		R _{th_JA}	5	K/W
Operating temperature range		T _{amb}	-40 to +85	°C
Storage temperature range		T _{stg}	-40 to +85	°C

Electrostatic discharge classification (MIL-STD-883) - class 1

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V _F	I _F = 350 mA		3.0	3.6	V
Radiant power*	Φ _e	I _F = 350 mA		180		mW
Radiant intensity*	I _e	I _F = 350 mA		400		mW/sr
Luminous flux*	Φ _v	I _F = 350 mA		80		lm
Luminous intensity*	I _v	I _F = 350 mA		240		cd
Peak wavelength	λ _p	I _F = 350 mA	537	545	553	nm
FWHM	Δλ _{0,5}	I _F = 350 mA		92		nm
Reverse current	I _R	I _R = 5 V			100	µA

*measured on star board

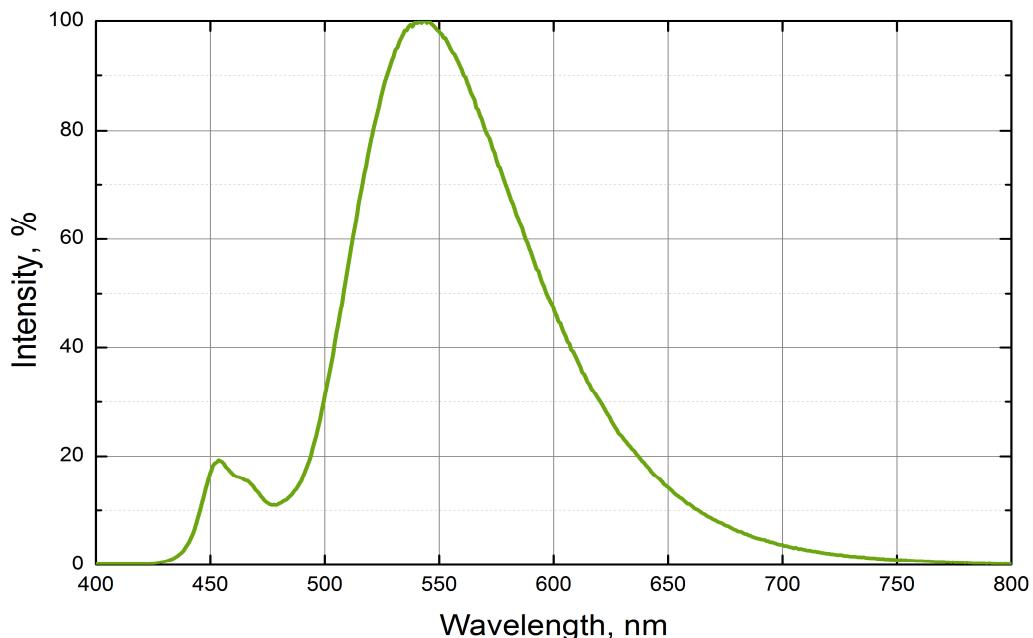


We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

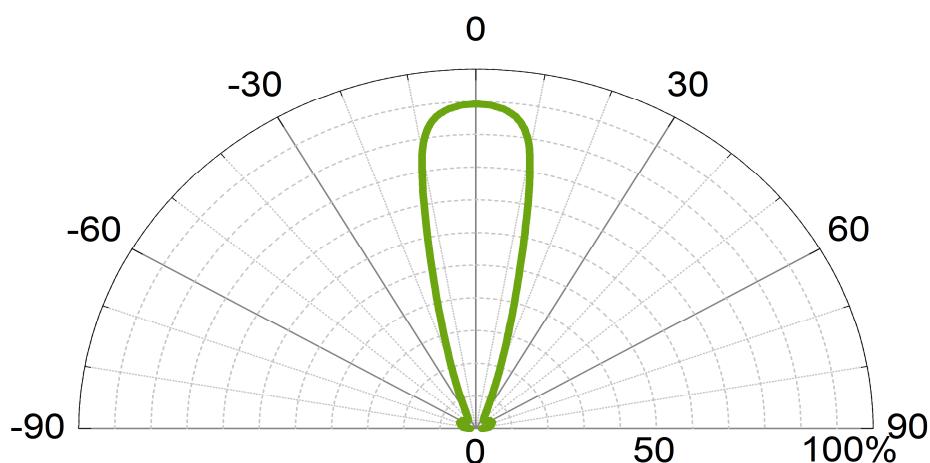
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High Power LED**EOLS-545-227**

Typical radiation spectrum at 350 mA



Radiation pattern

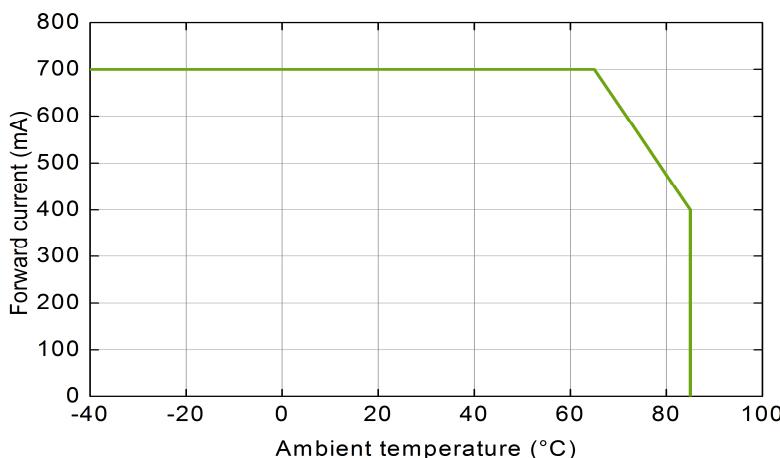
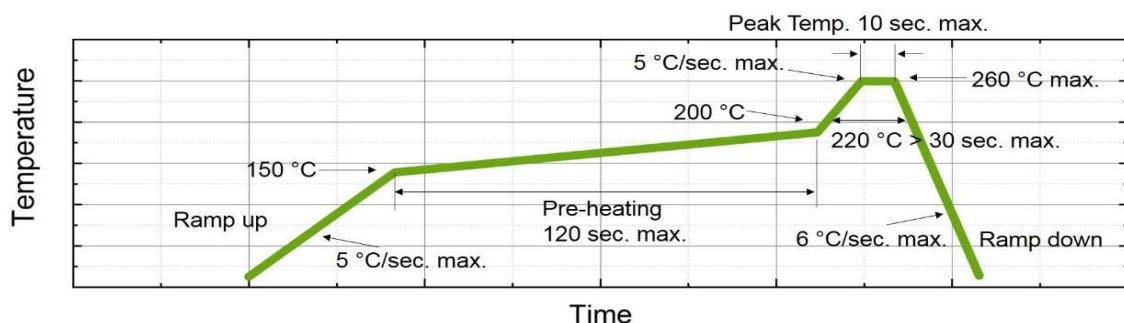
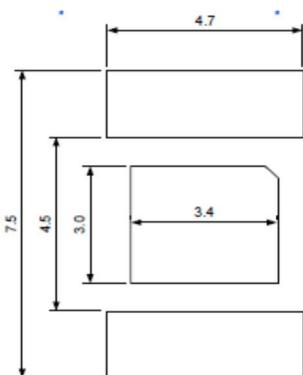


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**Max. forward current vs. ambient temperaturte****Recommended reflow soldering profile****Recommended soldering pad**

Thermal pad needs to be connected to a heat sink with less than 10 K/W thermal resistance.

Art. No. 133 163

