

EPIGAP Optronik GmbH

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Data Sheet

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Infrared SMD LED

EOLS-940-843

Rev. 04, 2019

Radiation	Type	Case
infrared	GaAs	SMD 3216 (1206), with lens

Description:	
<ul style="list-style-type: none"> - Size 1206: 3.2 (L) x 1.6 (W) x 1.95 (H) mm - Circuit substrate: glass laminated epoxy - Devices are RoHS conform - Lead free solderable, soldering pads: gold plated - Marking at cathode 	

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Peak forward current	t _p ≤ 100 μs, τ = 1:10	I _{FP}	100	mA
Continuous forward current		I _F	50	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
Thermal resistance		R _{thJA}	450	K/W

Optical and Electrical Characteristics

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



Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 50 mA		1.4	1.8	V
Reverse current	I _R	V _R = 5 V			10	μA
Radiant power	Φ _e	I _F = 50 mA		13.5		mW
Radiant intensity	I _e	I _F = 50 mA	18	28		mW/sr
Peak wavelength	λ _p	I _F = 50 mA	925	940	955	nm
Spectral bandwidth	Δλ _{0.5}	I _F = 50 mA		30		nm
Viewing angle	φ	I _F = 20 mA		40		deg

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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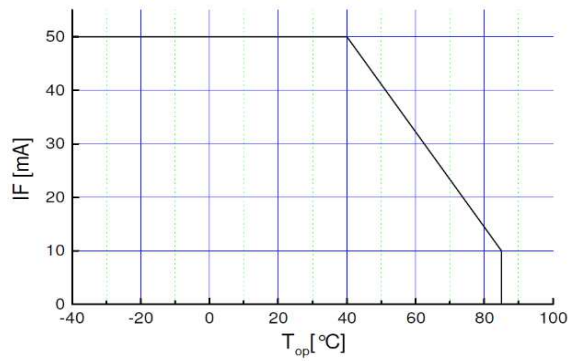
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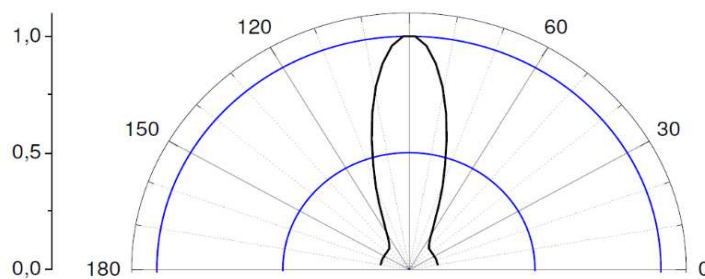
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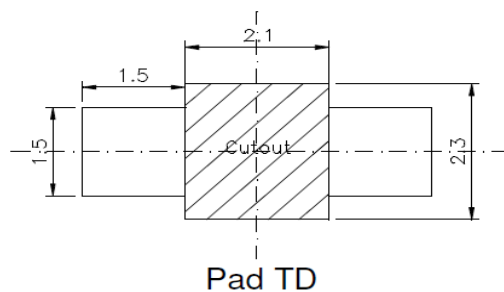
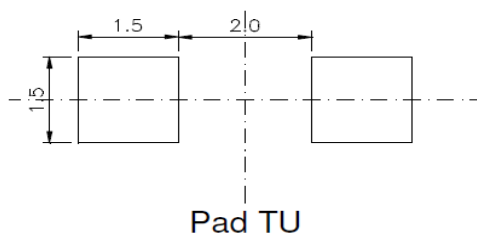
Maximal forward current (DC) characteristic



Radiation pattern



Recommended Soldering Patterns



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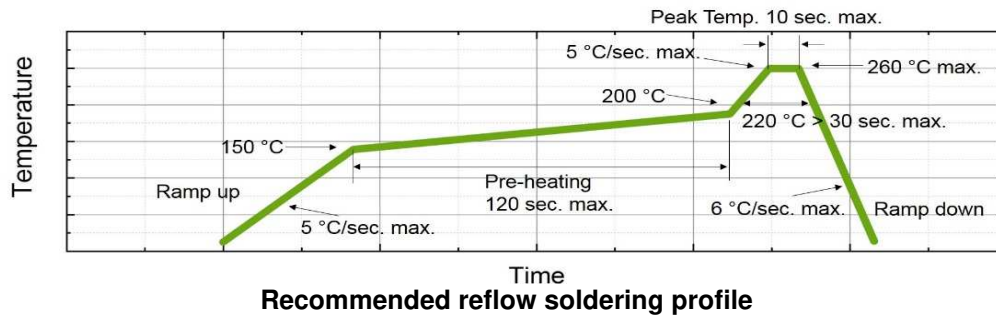
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