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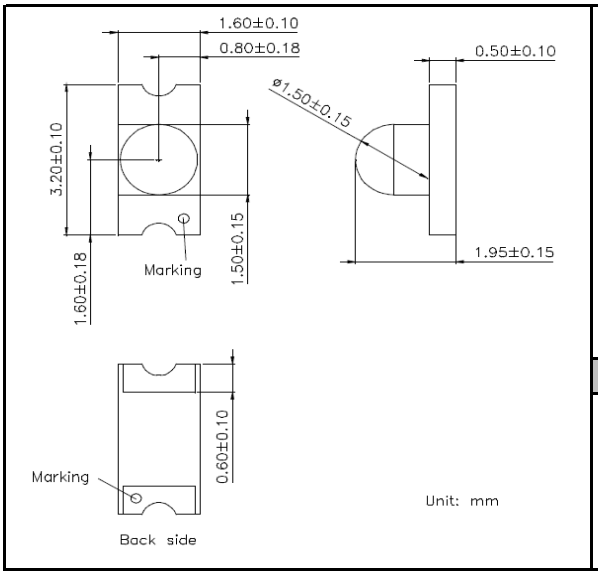
Data Sheet

Infrared SMD LED EOLS-810-843

Rev. 03, 2019

Radiation	Type	Case
Infrared	AlGaAs	SMD 3216 (1206)



Description:

- 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 anode

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Peak forward current	$t_p \leq 100$ µs, τ = 1:10	I_{FP}	150	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
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= 30 mA		1.55	2	V
Reverse current	I_R	V_R=5 V			10	µA
Radiant intensity	I_e	I_F= 30 mA	5.6	12		mW/sr
Peak wavelength	λ_p	I_F= 30 mA	800	810	820	nm
FWHM	$\Delta\lambda_{0.5}$	I_F= 30 mA		28		nm
Viewing angle	ϕ	I_F= 30 mA		40		deg
Rise and fall time	t_r, t_f	I_F= 30 mA		35	160	ns

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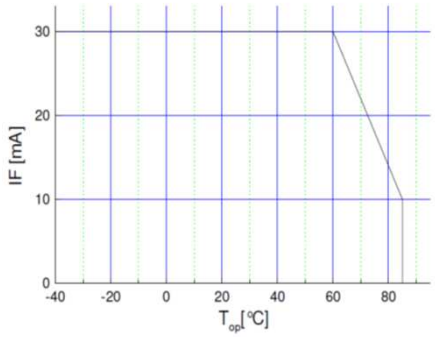
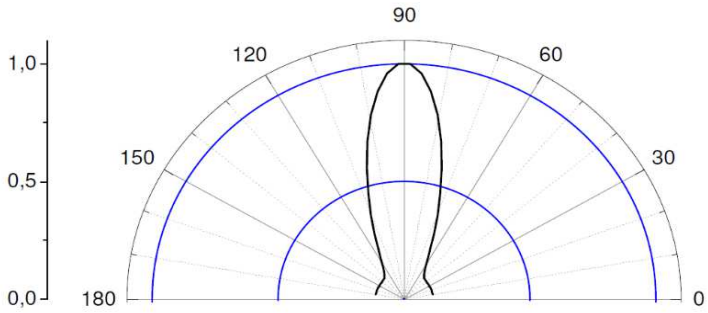
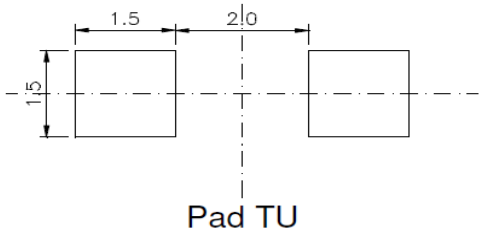
Maximal forward current (DC) characteristic



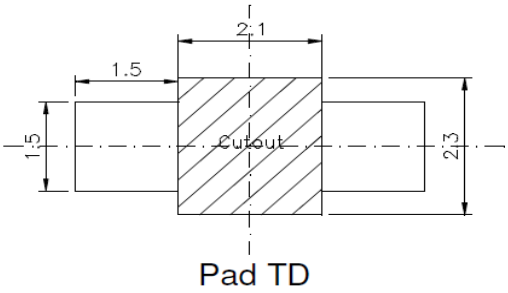
Radiation pattern



Recommended Soldering Patterns



Pad TU



Pad TD

RoHS COMPLIANT Pb-Free

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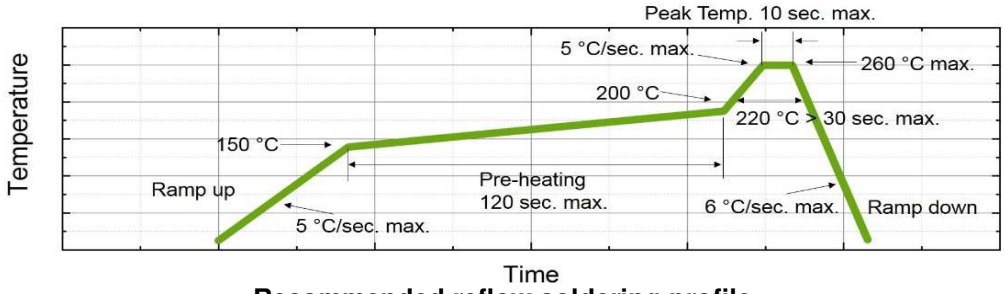

Recommended reflow soldering profile

Art. No. 133 030

RoHS COMPLIANT Pb-Free