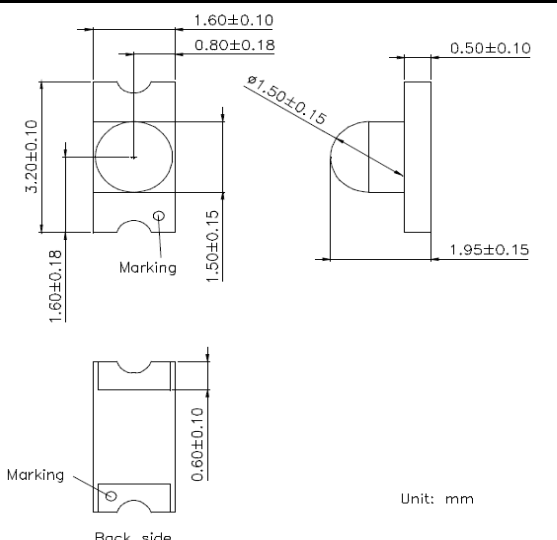



Data Sheet

Infrared SMD-LED EOLS-950-843

Radiation	Type	Case
infrared	GaAs	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 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}	250	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}	-55 to +85	°C
Thermal resistance		R _{thJA}	500	K/W

Optical and Electrical Characteristics

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



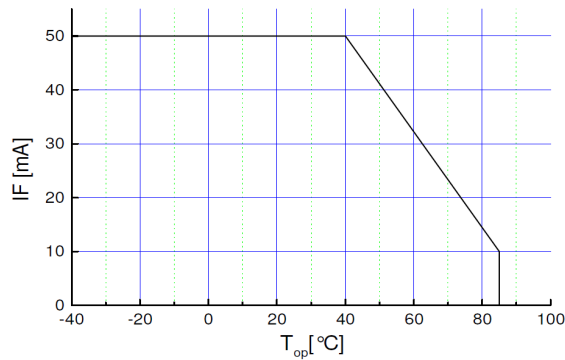
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 50 mA		1.3	1.6	V
Reverse current	I _R	V _R =5 V			100	μA
Radiant power	Φ _e	I _F = 50 mA	1.8	4.6		mW
Peak wavelength	λ _p	I _F = 50 mA	940	950	960	nm
Spectral bandwidth	Δλ _{0.5}	I _F = 50 mA		40		nm
Switching time	t _r , t _f	I _F = 50 mA		20		ns
Viewing angle	φ	I _F =20 mA		40		deg

Data Sheet

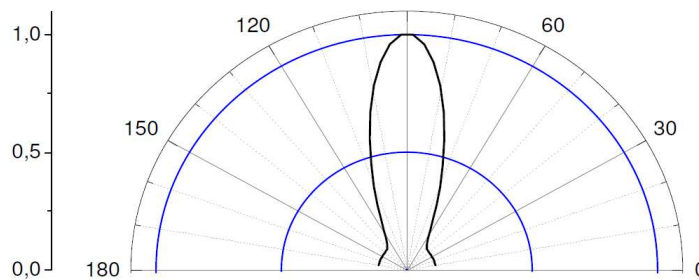
Infrared SMD-LED

EOLS-950-843

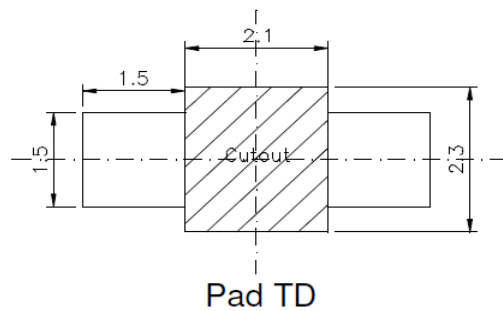
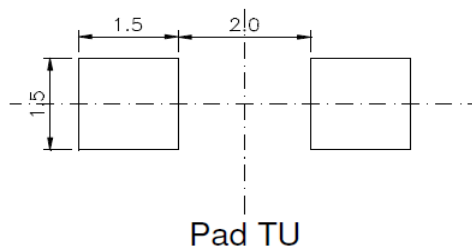
Maximal forward current (DC) characteristic



Radiation pattern



Recommended Soldering Patterns

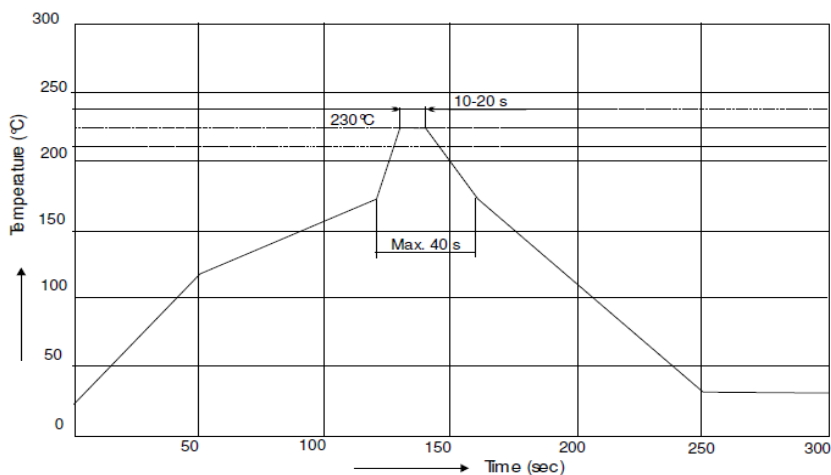


Data Sheet

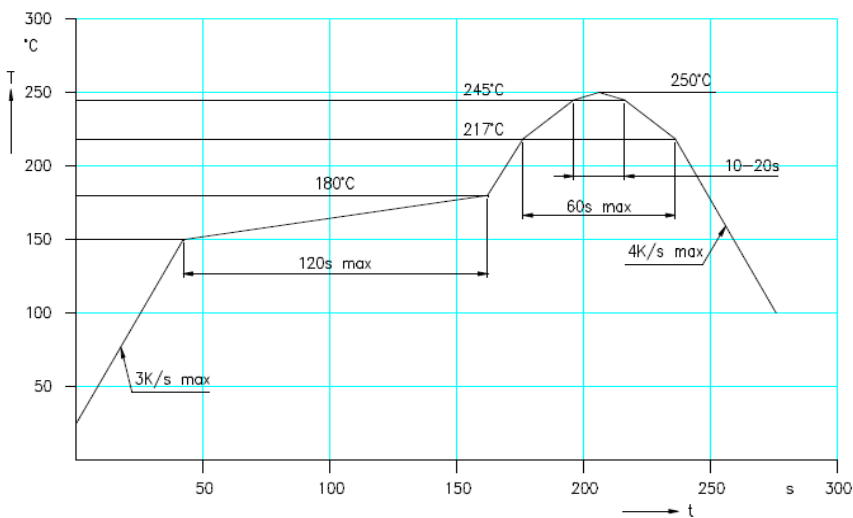
Infrared SMD-LED

EOLS-950-843

IR reflow soldering profile



IR reflow soldering profile for lead free soldering



Manual soldering:
 max power of iron 25 W / 3 s / 300°C

Art. No. xxx xxx



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.