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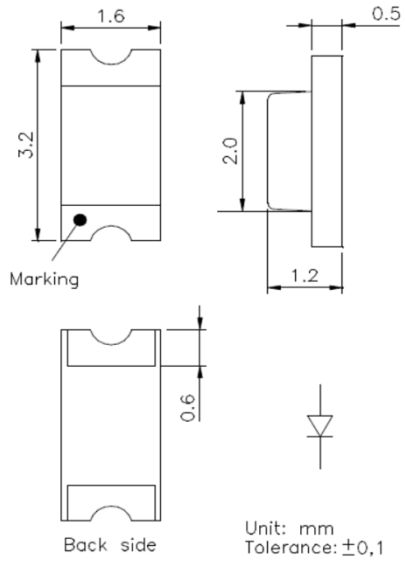
Data Sheet

Infrared SMD-photodiode EOPD-1300-1-0.3

Rev. 04, 2017

Spectral range	Type	Case
Infrared	InGaAs/InP	SMD 1206 (3216)



Description:

- Size 1206: 3.2 (L) x 1.6 (W) x 1.9 (H) mm
- Circuit substrate:glass laminated epoxy
- Devices are RoHS conform
- Lead free solderable, soldering pads: gold plated
- Taped in 8 mm blister tape, cathode (marked) to transporting perforation
- Taping: face up (T)

Electro-optical characteristics:

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

Parameters	Symbol	Min	Typ	Max	Unit	Test conditions
Responsitivity	S	0.8	1.0		A/W	V_R=5 V,λ=1300 nm
Responsitivity	S	0.9	1.1		A/W	V_R=5 V,λ=1550 nm
Dark current	I_D		0.3	1	nA	V_R=5 V
Breakdown voltage	V_{BR}	25	35		V	I_R= 1 µA
Junction capacitance	C_j		6	10	pF	V_R= 5 V, f=1 MHz
Shunt resistance	R_{SH}	15			MΩ	V_R= 10 mV

Absolute maximum ratings

Parameters	Min	Max	Unit
Storage temperature	-40	+100	°C
Operating temp.	-40	+85	°C
Reverse current		2	mA
Forward current		10	mA
Reverse voltage		20	V
Incident opt. Power		2	mW

RoHS COMPLIANT Pb-Free

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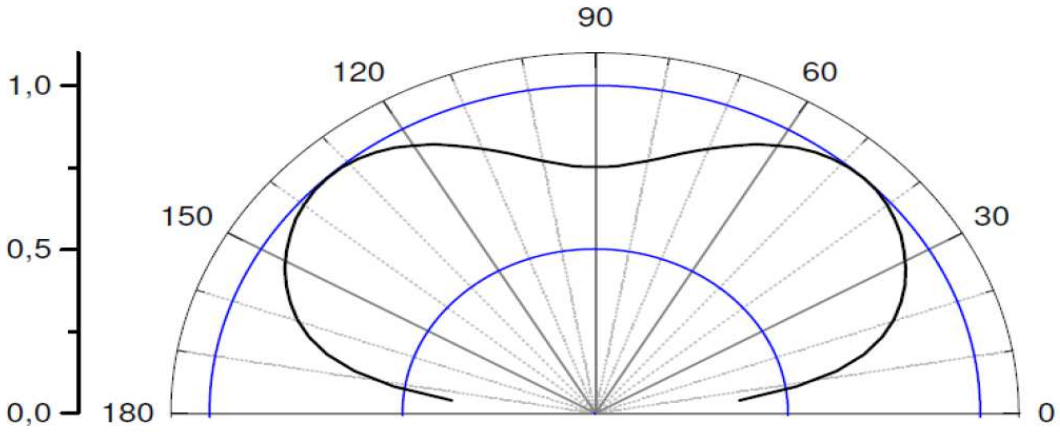
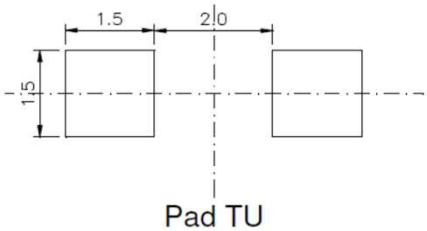
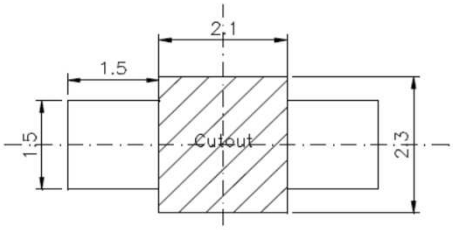
Acceptance pattern (angular response)



Recommended Soldering Patterns



Pad TU



Pad TD

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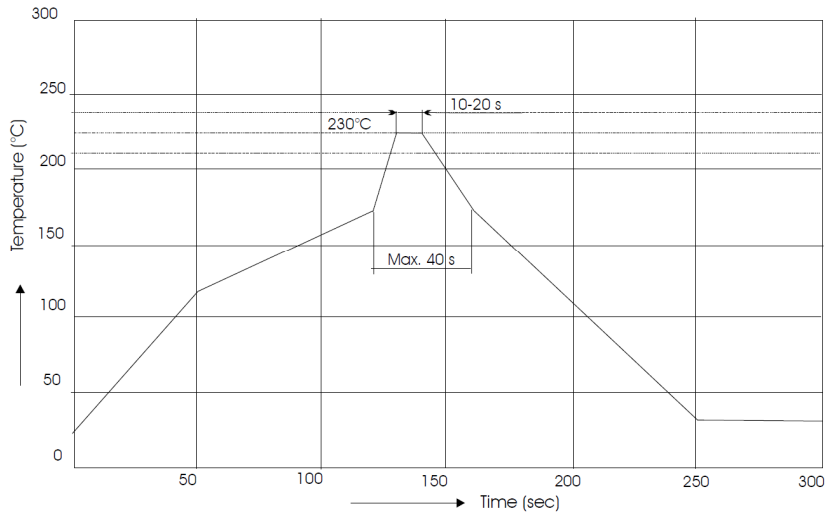
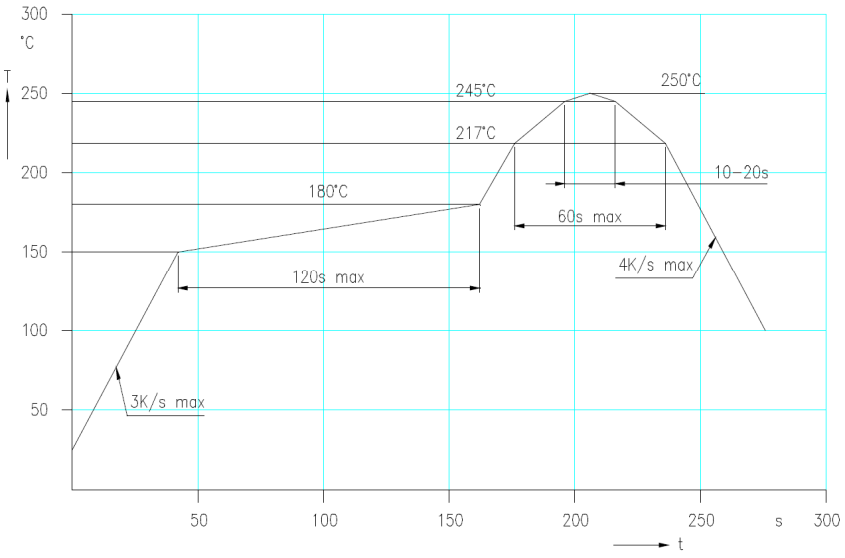
IR reflow soldering profile



IR reflow soldering profile for lead free soldering



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

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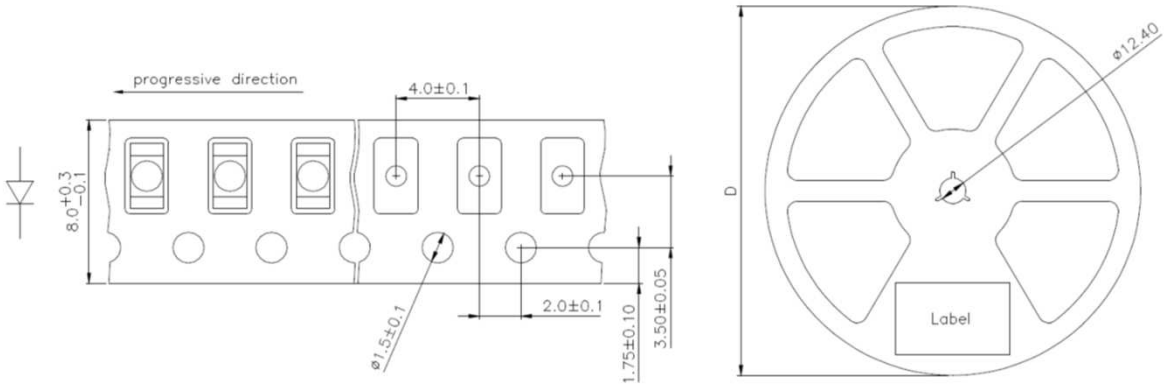
Tape and Reel packing



D	Parts/reel
180 mm	2000
330 mm	8000

Packing: The reel is sealed in special plastic bag with integrate ESD protection (MIL - STD 81705) including a silica dry-pack

Art. No. 143 002

RoHS COMPLIANT Pb Pb-Free