Marktech Optoelectronics

Infrared Emitter

Product No: **MTSM5014-843-IR**

Peak Emission Wavelength: 1450nm



Description

- Size 1206: 3.2 (L) x 1.6 (W) x 1.2 (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 to transporting perforation
- All devices are sorted into radiant intensity classes
- High radiation intensity types

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward DC Current	If	50	mA
Peak Forward Current *	Ifp	100	mA
Reverse Voltage	Vr	5	V
Reverse Current	Ir	100	uA
Operating Temperature	Top	-40 to +85	°C
Storage Temperature	Tst	-55 to +85	°C
Thermal Resistance RthJA		450	K/W

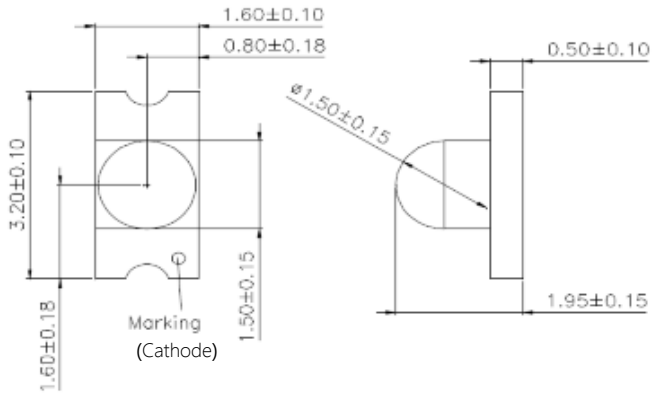
* tp≤ 100 us, T=1:10

Electrical & Optical Characteristics (Ta = 25°C)

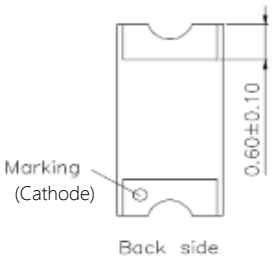
ITEMS	SYMBOL	MIN	TYP	MAX	UNIT
Forward Current	If	--	--	50	mA
Forward Voltage	Vf	--	1.0	1.3	V
Peak Wavelength	λp	1400	1450	1500	nm
Power Output	Po	--	2	--	mW
Spectral Width	Δλ0.5	--	90	--	nm

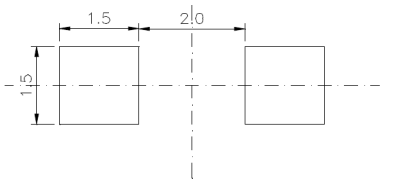
2016-03-01

Package Dimensions

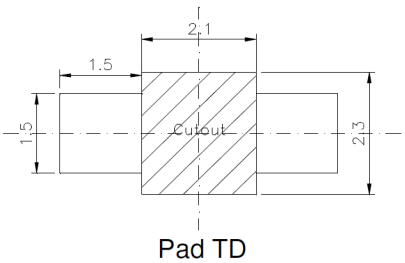


- Unit: mm





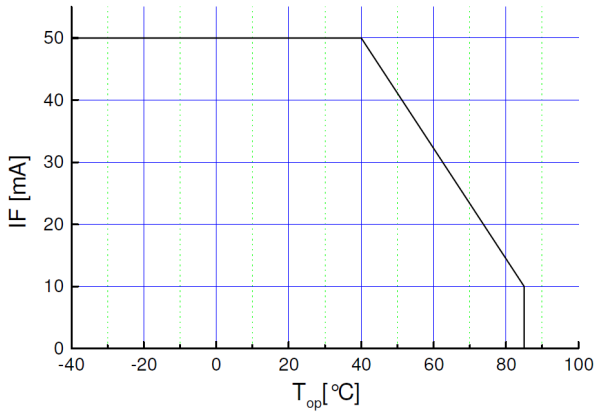
Pad TU



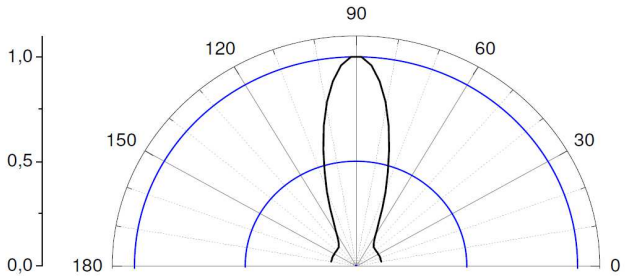
Pad TD

Recommended Soldering Pattern

Global Headquarters, 3 Northway Lane North, Latham, NY 12110, USA **www.marktechopto.com**
TOLL FREE: 1-800-984-5337 • **PHONE:** 518-956-2980 • **FAX:** 518-785-4725 • **EMAIL:** info@marktechopto.com

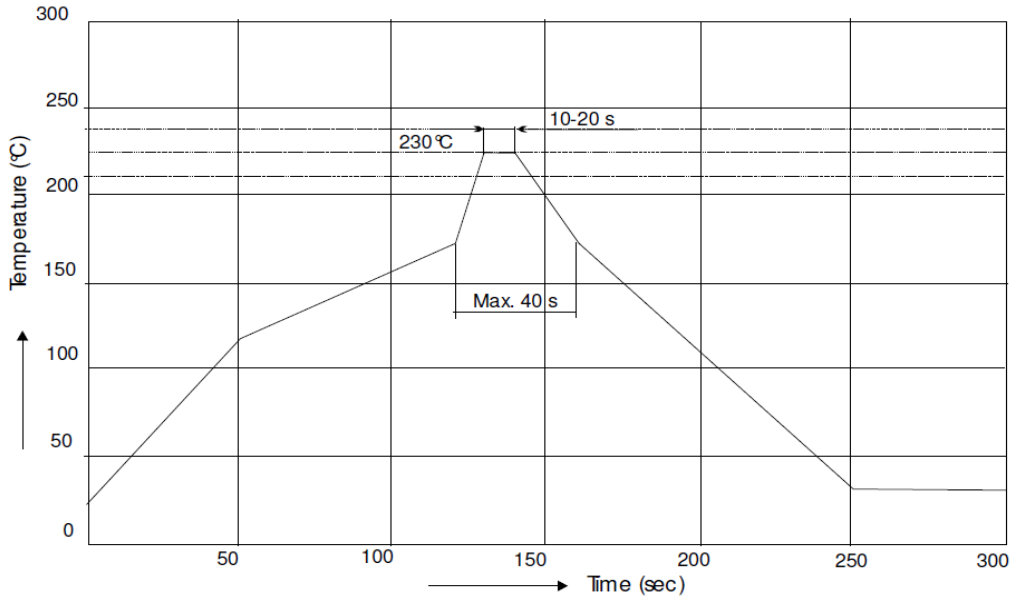


Maximal forward current (DC) characteristic

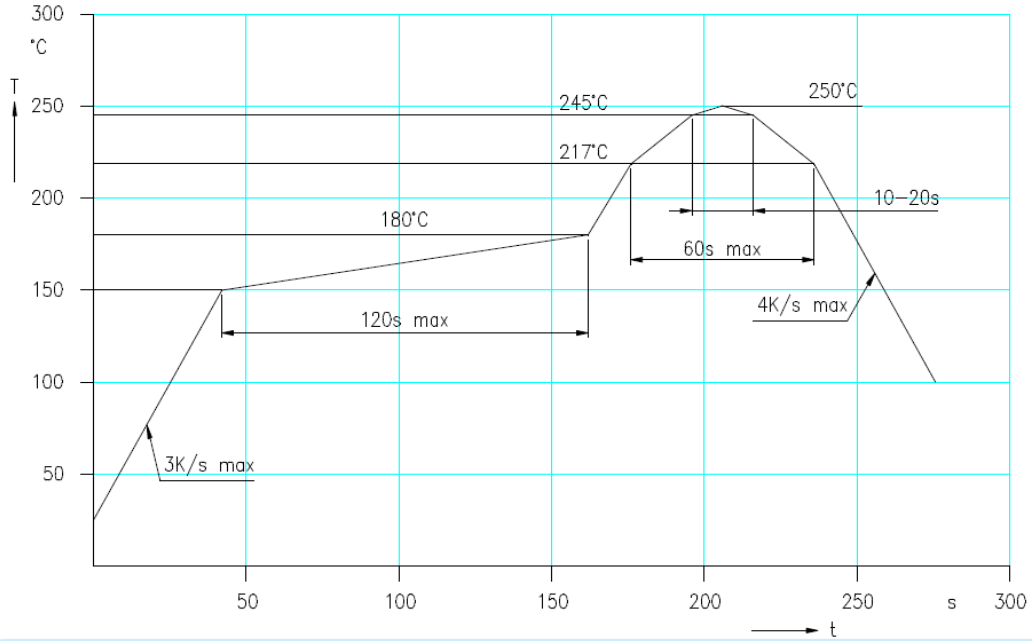


View angle

IR reflow soldering profile



IR reflow soldering profile for lead free soldering



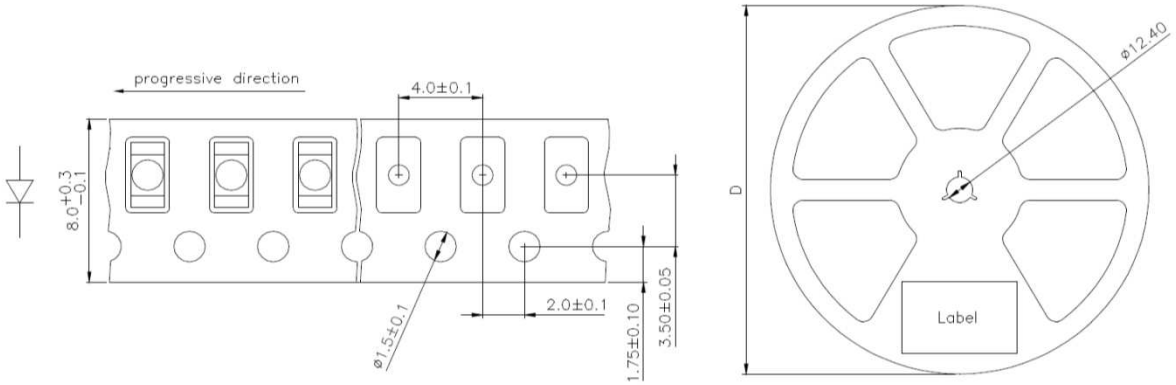
Manual soldering:
max power of iron 25 W / 3 s / 300°C

The information contained herein is subject to change without notice.

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Measured according to CIE 127. All SMD-LEDs are 100% measured and selected on full automated equipment with an accuracy of ±11%.

Tape and Reel packing



D = 180mm

Tape and Reel -Suffice to the part number	
Ex:	MTXXXXX-T05 = 500 piece reel
Code	Components per reel
T05	500
T1	1000
T2	2000
T25	2500
T3	3000

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

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