Optrans

SWIR Infrared Emitter

Product No: **LSF1551N5**

Peak Emission Wavelength: 1550nm

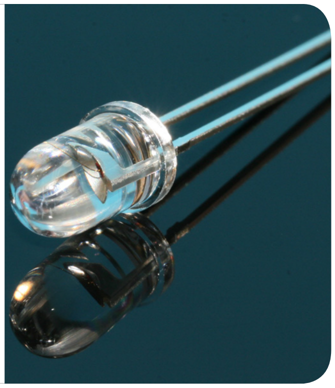
The LSF1551N5 consists of a 1550nm high output infrared die in a water-clear 5mm plastic molded dome shaped package. Custom package solutions and sorting are available.

FEATURES

> High Output Power
> Narrow Beam Angle
> High Reliability

APPLICATIONS

> Optical Switches & Sensors
> Fiber Optical Communication
> Bar-code Reader



Absolute Maximum Ratings (Ta=25°C)

Pb lead-free RoHS

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	120	mW
Operating Temperature Range	Topr	-20 ~ +80	℃
Storage Temperature Range	Tstg	-30 ~ +100	℃
Junction Temperature	Tj	100	℃
Lead Soldering Temperature*2	Tls	260	℃

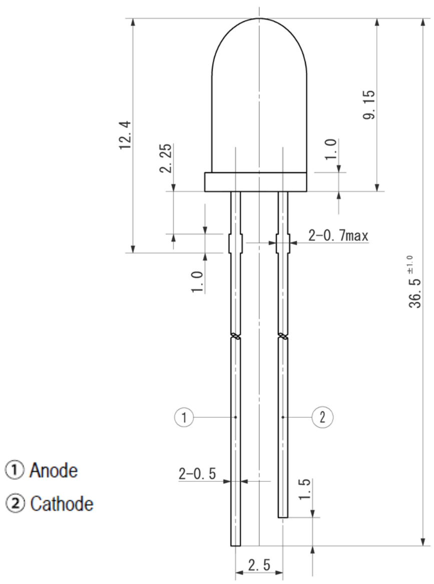
*1: Tw=10μsec, T=10msec. *2: Time 5Sec max, Position: Up to 3mm from the body.

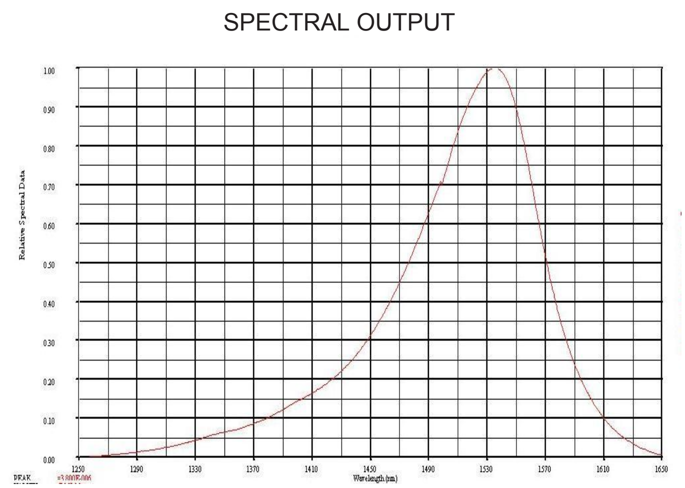
Electrical & Optical Characteristics (Ta = 25°C)

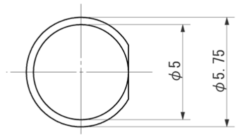
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	3.5	--	mW
Power Output	PO	IF=50mA	--	6.5	--	mW
Forward Voltage	VF	IF=20mA	--	0.9	--	V
Forward Voltage	VF	IF=50mA	--	1.0	--	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=50mA	--	1550	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	100	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	±5	--	deg

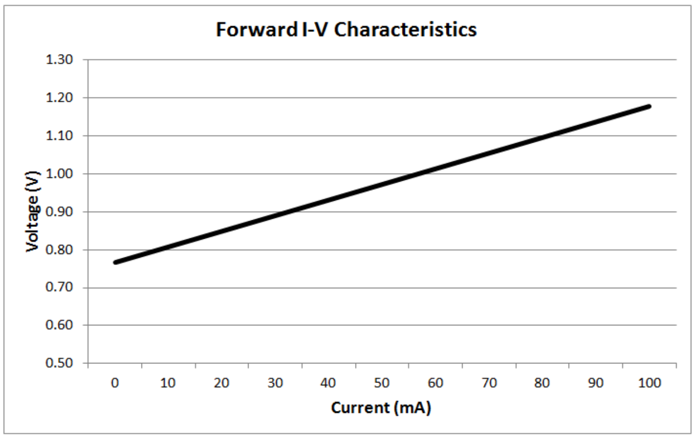
2019-06-18

Global Headquarters, 241 Noborito, Tama-Ku, Kawasaki 214-0014 Japan WEBSITE: www.optrans.com
• PHONE: 81(44) 932-6491 • FAX: 81(44) 932-8281 • EMAIL: info@optransamerica.com









Unit: mm, Tolerance: ±0.2

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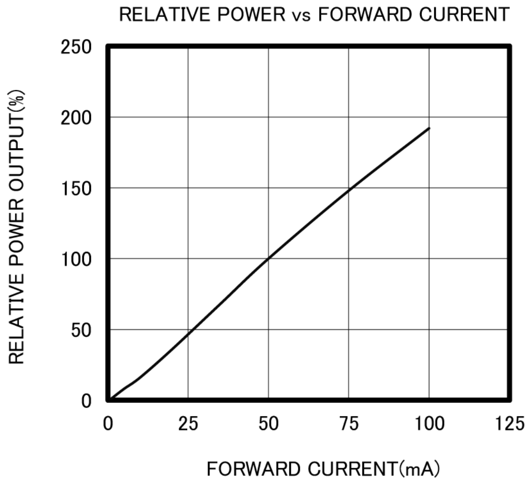

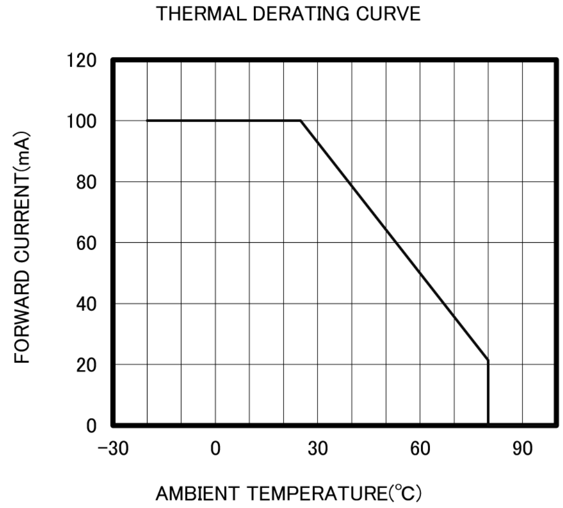

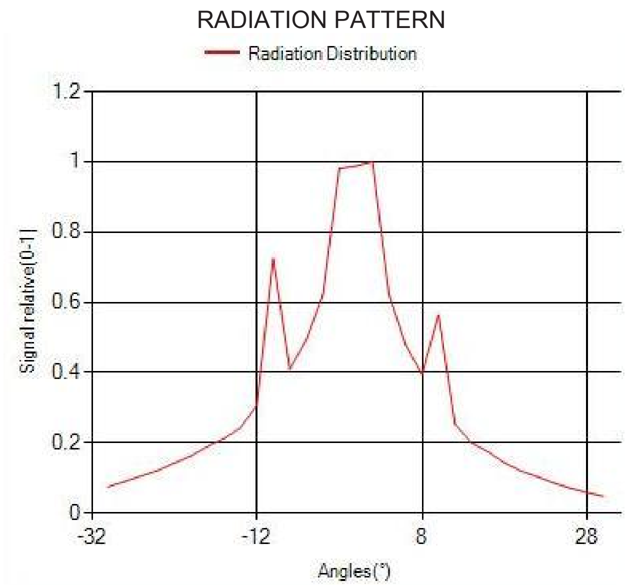

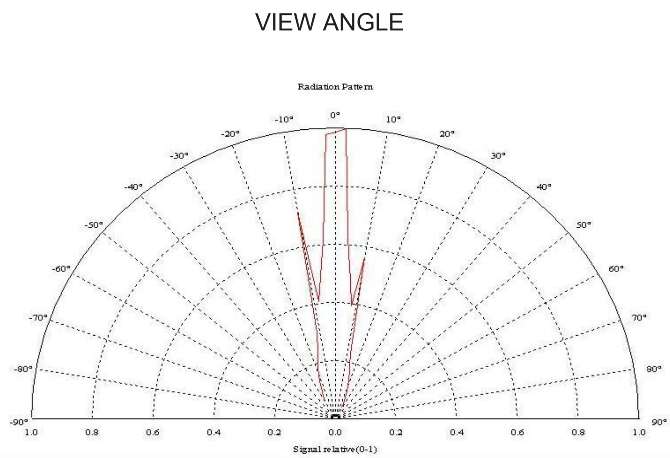

The information contained herein is subject to change without notice.

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