Optrans

Infrared Point Source Emitter

Product No: **LS858FT**

Peak Emission Wavelength: 855nm

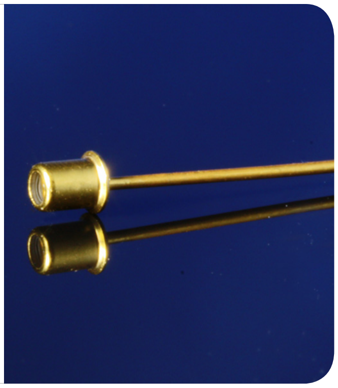
The 850nm Point Source Series is designed for applications requiring high accuracy and precision as well as uniform spectral emission. Custom package solutions and sorting are available.

FEATURES

> Hermetically Sealed PigTail Package
> Emitting Window Diameter Φ 150µm
> Gold Plated Flat Top Can
> High Reliability / High Output Power

APPLICATIONS

> Optical Scanning
> Linear & Rotary Encoder
> Edge Sensing
> Optical Sensors



Absolute Maximum Ratings (Ta=25°C)

Pb lead-free RoHS

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	80	mA
Forward Current (Pulse)*1	IFP	0.4	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	140	mW
Operating Temperature Range	Topr	-20 ~ +85	℃
Storage Temperature Range	Tstg	-30 ~ +100	℃

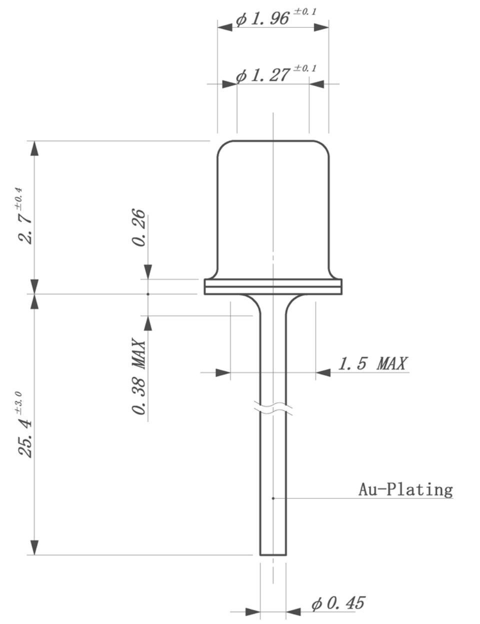
*1: Tw=10µsec, T=10msec.

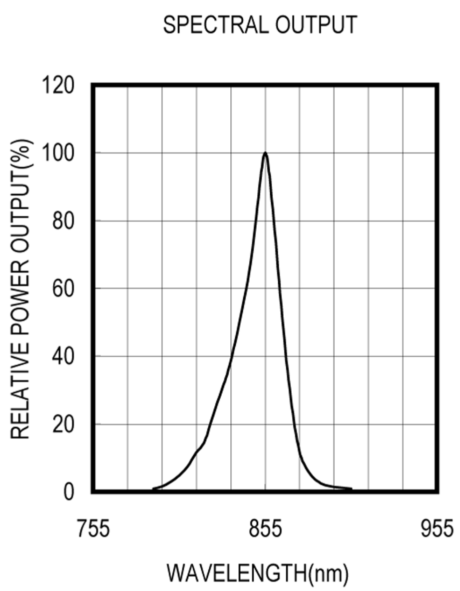
Electrical & Optical Characteristics (Ta = 25°C)

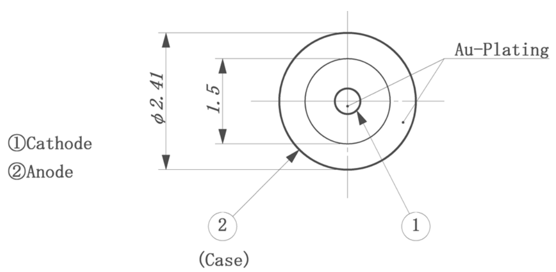
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	Po	IF=50mA	0.6	1.0	--	mW
Forward Voltage	VF	IF=50mA	--	1.7	2.2	V
Reverse Current	IR	VR=5V	--	--	100	µA
Peak Wavelength	λp	IF=50mA	--	855	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	30	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	±25	--	deg

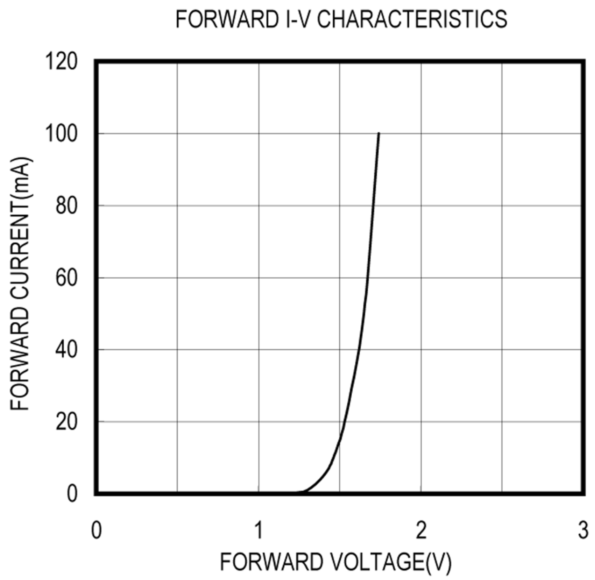
2011-05-23

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



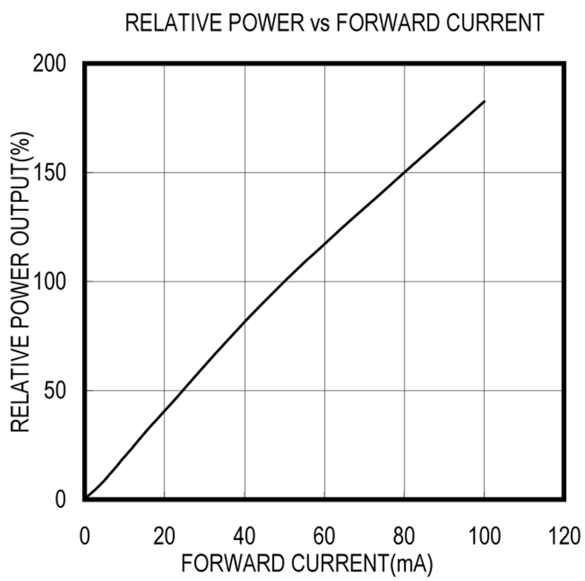


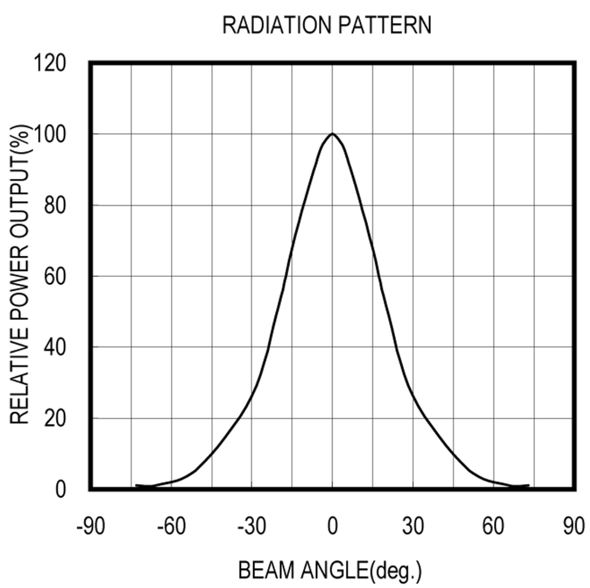


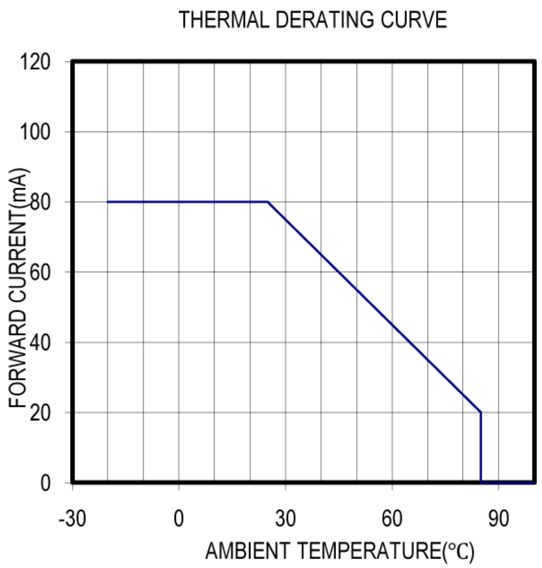


Unit: mm, Tolerance: ±0.2

2011-05-23







The information contained herein is subject to change without notice.

2011-05-23