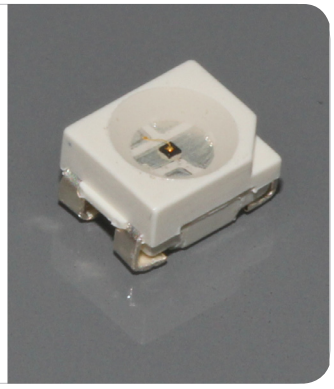
Marktech Optoelectronics

High Power Infrared Emitter

Product No: **MTE9460MT**

Peak Emission Wavelength: 950nm

The 950nm IR emitter series is designed for applications requiring high output and precise optical / mechanical axis alignment. Custom package solutions and sorting are available.



FEATURES

> PLCC-4 Package
> High Reliability
> High Output Power
> Wide Beam Angle

APPLICATIONS

> Optical Switches
> Optical Sensors

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	80	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	160	mW
Operating Temperature Range	Topr	-20 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Junction Temperature	Tj	100	°C
Lead Soldering Temperature*2	Tls	260	°C

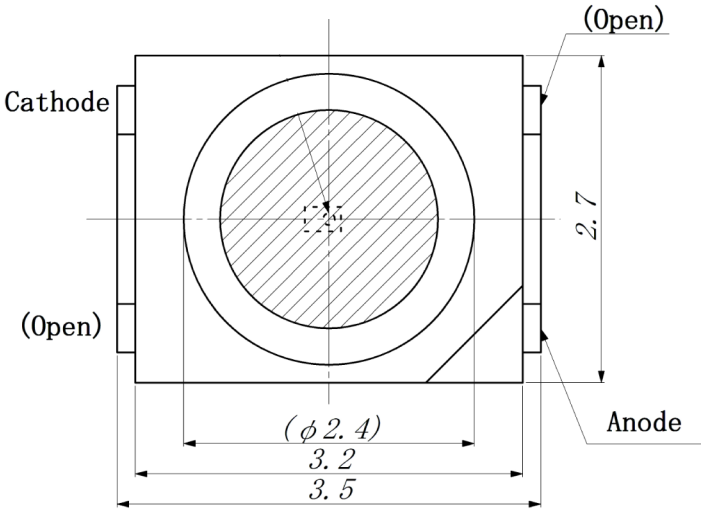
*1: Tw=10μsec, T=10msec; *2: Time 5 Sec max, Position: Up to 3mm from the body.

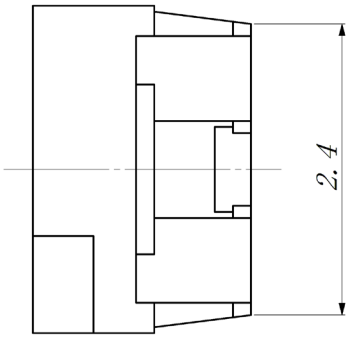
Electrical & Optical Characteristics (Ta = 25°C)

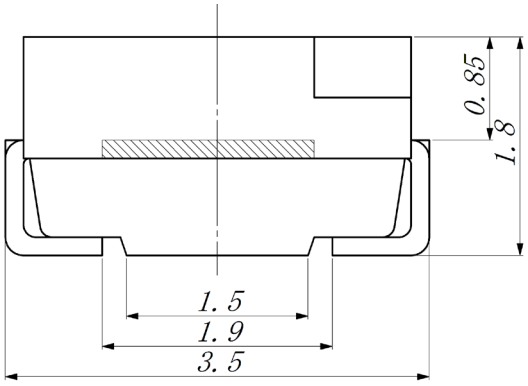
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=50mA	--	25.0	--	mW
Forward Voltage	VF	IF=50mA	--	1.30	1.9	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=50mA	--	950	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	40	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	±55	--	deg

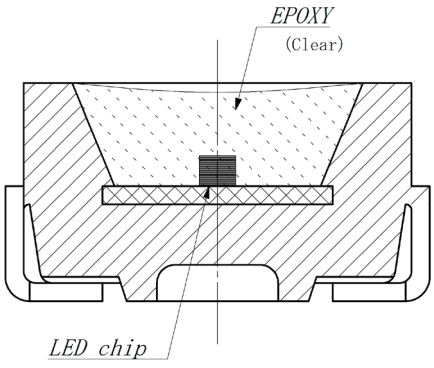
2013-01-11

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





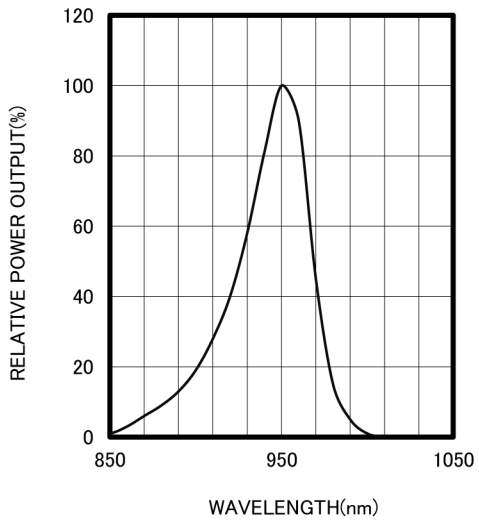




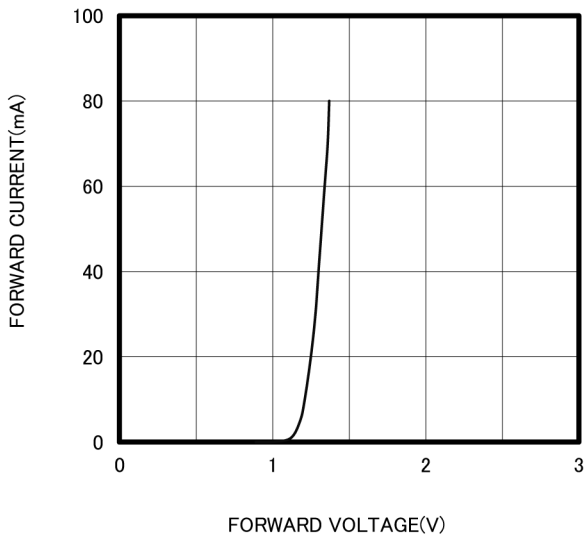
Unit: mm, Tolerance: ±0.2

2013-01-11

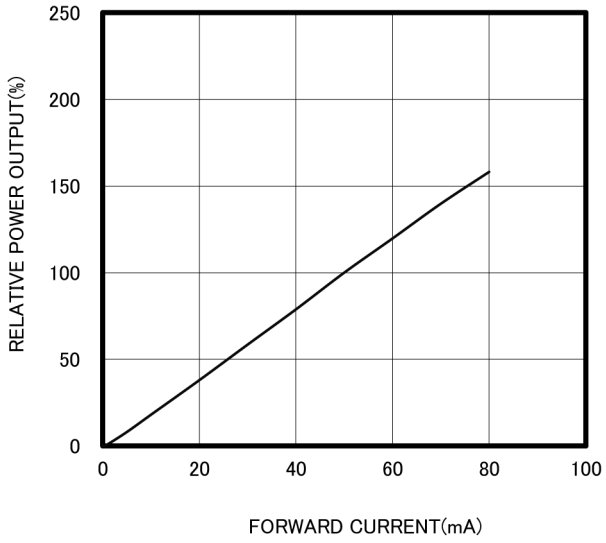
SPECTRAL OUTPUT



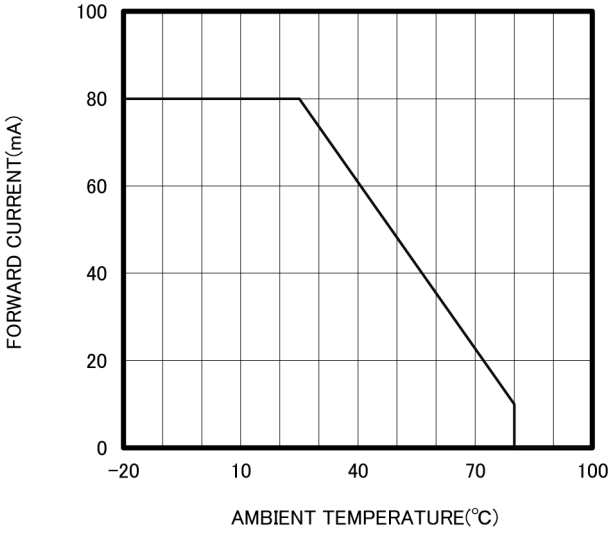
FORWARD I-V CHARACTERISTICS



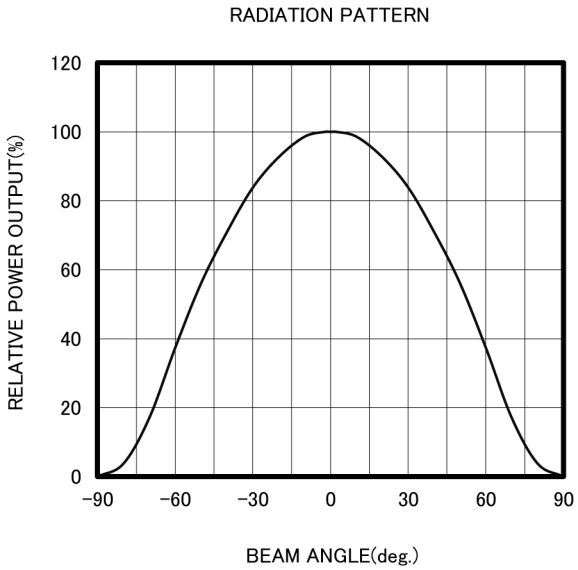
RELATIVE POWER vs FORWARD CURRENT



THERMAL DERATING CURVE



2013-01-11



The information contained herein is subject to change without notice.

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