

### Peak Emission Wavelength: 950nm

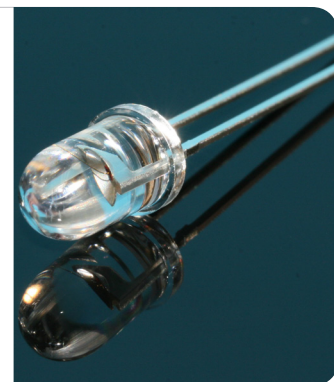
The MTE9460N1 consists of a 950nm high output infrared die in a water-clear 5mm plastic molded package. Custom package solutions and sorting are available..

#### FEATURES

- > High Output Power
- > High Reliability
- > Compact

#### APPLICATIONS

- > Optical Switches
- > Optical Sensors
- > Fiber Optical Communication



### Absolute Maximum Ratings (Ta=25°C)

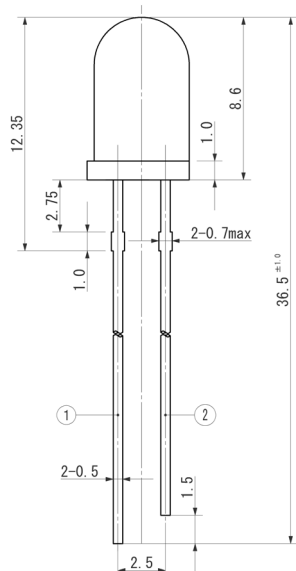


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	100	mA
Forward Current (Pulse)*1	IFP	1	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	190	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Junction Temperature	Tj	100	°C
Lead Soldering Temperature*2	Tls	260	°C

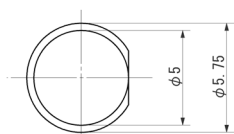
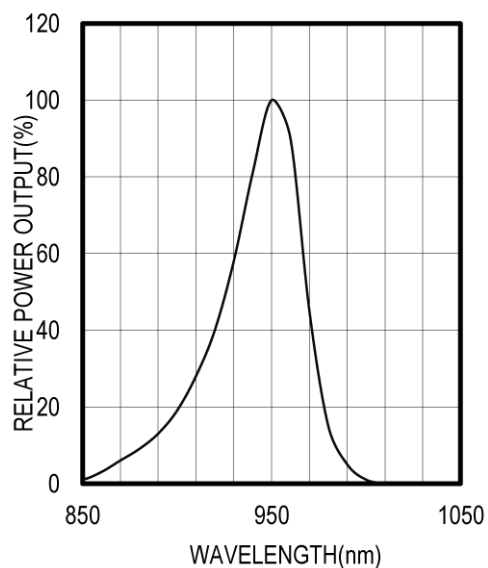
\*1: Tw=10μsec, T=10msec; \*2: Time 5 Sec max, Position: Up to 3mm from the body.

### Electrical & Optical Characteristics (Ta = 25°C)

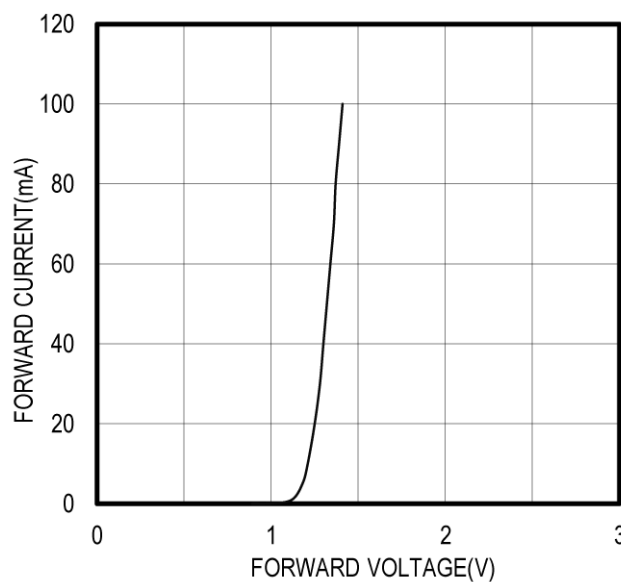
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=50mA	--	33	--	mW
Forward Voltage	VF	IF=50mA	--	1.30	1.90	V
Reverse Current	IR	VR=5V	--	--	10	μA
Peak Emission Wavelength	λp	IF=50mA	--	950	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	40	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	±16	--	deg



SPECTRAL OUTPUT



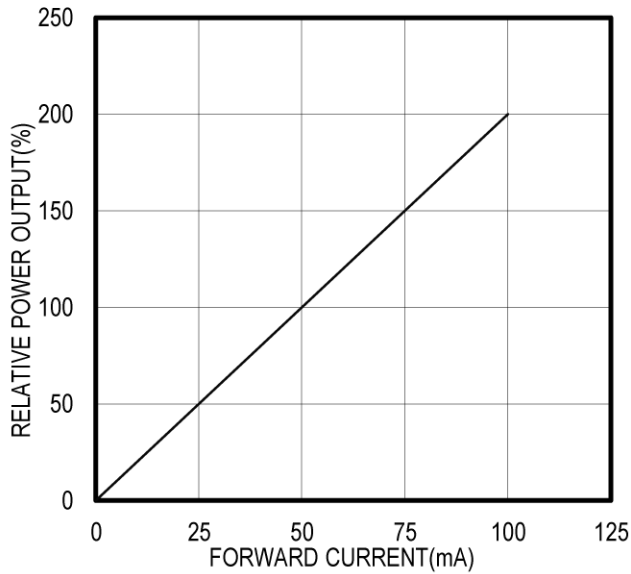
FORWARD I-V CHARACTERISTICS



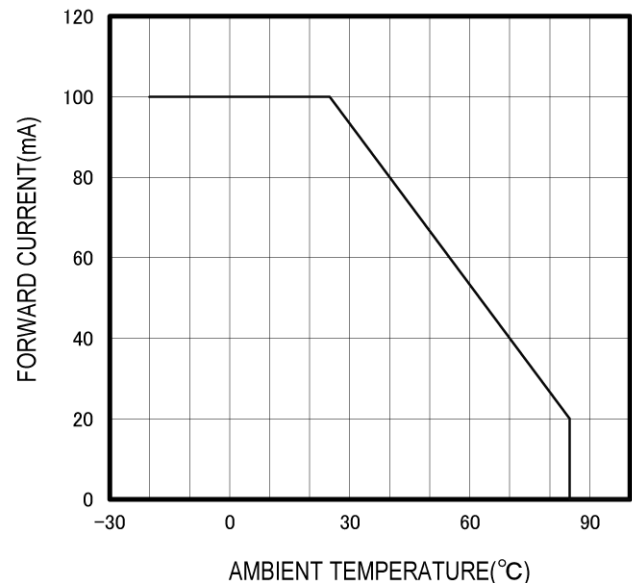
Unit: mm, Tolerance:  $\pm 0.2$

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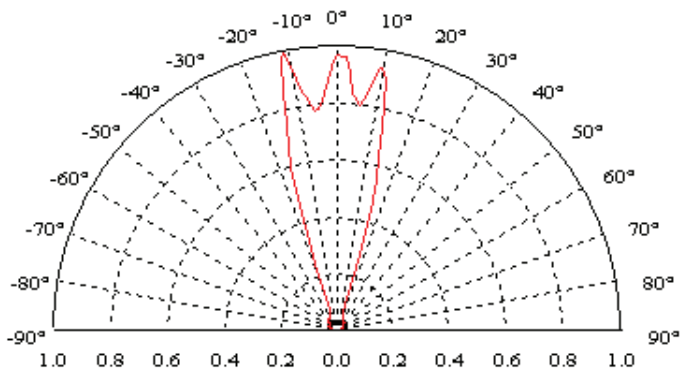
RELATIVE POWER vs FORWARD CURRENT



THERMAL DERATING CURVE



RADIATION PATTERN



The information contained herein is subject to change without notice.

2013-05-07

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