

MTPS4088P

Features

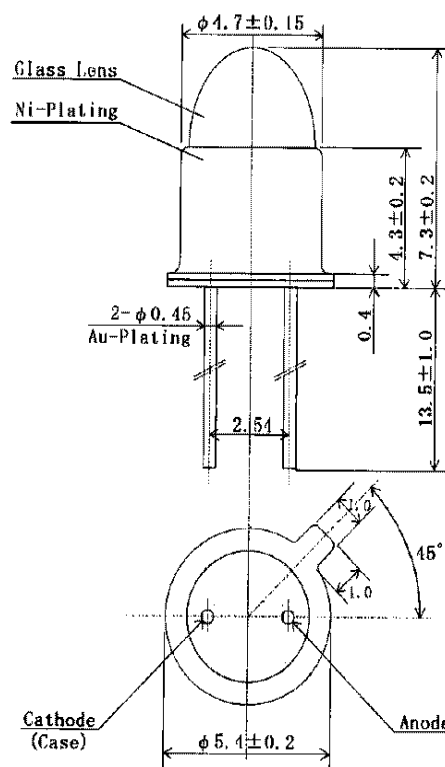
Emitting Window Diameter 50μ m
High Power Output
Parallel Rays
Narrow Beam Angle
Small Temp. Coefficient of PO

Applications

Linear Rotary Encoder
Optical Switches

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Test Condition	Unit
Forward Current	I _F	80	—	mA
Pulsed Forward Current	I _{FP}	.40	tw=10μ S, T=10mS	A
Reverse Voltage	V _R	5	—	V
Power Dissipation	P _D	150.00	—	mW
Operating Temperature	T _{opr}	-30 ~+80	—	°C
Storage Temperature	T _{stg}	-40 ~+100	—	°C
Junction Temperature	T _j	125	—	°C
Soldering Temperature	T _{sol}	260	for 5 sec. max	°C



Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =50mA	—	1.90	2.40	V
Reverse Current	I _R	V _R =5V	—	—	10	μA
Power Output	PO	I _F =50mA	1.80	2.50	—	mW
Half Intensity Beam Angle	θ	—	—	± 2°	—	deg.
Peak Wavelength	λ _p	I _F =50mA	—	880	—	nm
Spectral Line Half Width	Δλ	I _F =50mA	—	40	—	nm
Temp Coefficient of PO	P/T	I _F =10mA	—	-.05	—	%/°C
Temp Coefficient of V _F	V/T	I _F =10mA	—	-2.30	—	mV/°C
Junction Capacitance	C _j	1 MHz, V=0V	—	40	—	pF
Cut-Off Frequency	f _c	I _{FP} =50mA+20mA _{p-p}	—	20	—	MHz

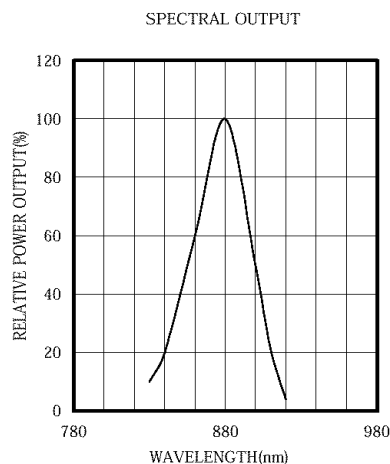
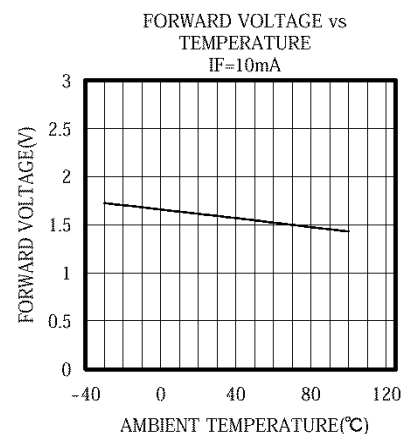
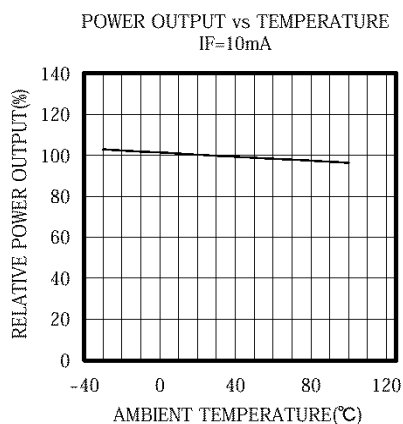
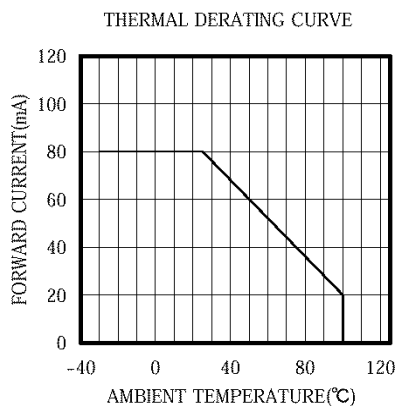
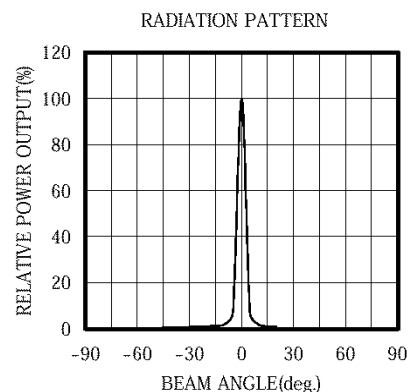
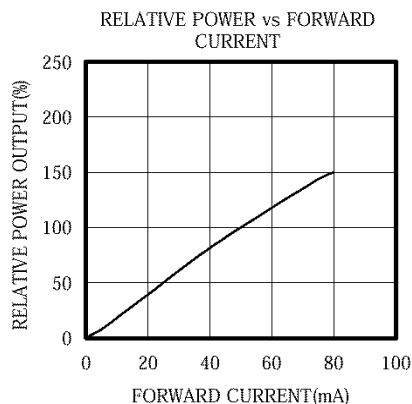
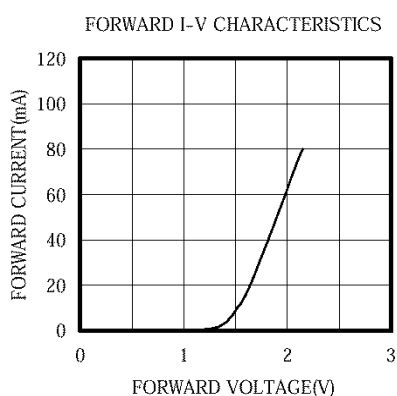
Company Headquarters

120 Broadway
Menands, New York 12204
Toll Free: 800.984.5337
Fax: 518.432.7454

West Coast Sales Office

950 South Coast Drive, Suite 265
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

MTE4088P Graphs



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