

MTPS9087PT

Features

Emitting Window Diameter 150 μ m
High Power Output
Narrow Beam Angle
Compact Package
Low Temp. Coefficient of PO

Applications

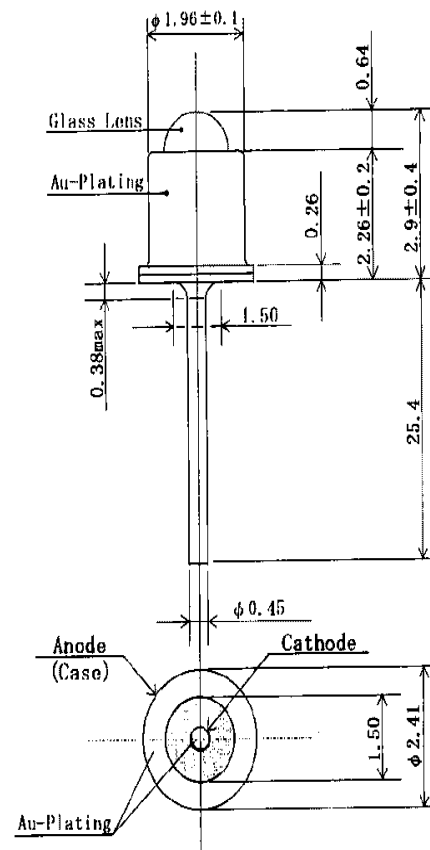
Optical Switches
Edge Sensing

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Test Condition	Unit
Forward Current	I _F	80	—	mA
Pulsed Forward Current	I _{FP}	.40	tw=10 μ S, T=10mS	A
Reverse Voltage	V _R	5	—	V
Power Dissipation	P _D	140.00	—	mW
Operating Temperature	T _{opr}	-20~+85	—	°C
Storage Temperature	T _{stg}	-30 ~+100	—	°C
Junction Temperature	T _j	100	—	°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	—	1.45	1.80	V
Reverse Current	I _R	V _R =5V	—	—	10	μ A
Power Output	PO	I _F =50mA	1.00	1.60	—	mW
Half Intensity Beam Angle	θ	—	—	$\pm 3^\circ$	—	deg.
Peak Wavelength	λ_p	I _F =50mA	—	880	—	nm
Spectral Line Half Width	$\Delta\lambda$	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	—	-1.60	—	mV/°C
Junction Capacitance	C _j	1 MHz, V=0V	—	65	—	pF
Cut-Off Frequency	f _c	I _{FP} =50mA+20mA _{p-p}	—	6	—	MHz



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MTPS9087PT Graphs

