

MTE7710

Features

High Power Output
Narrow Beam Angle
High Reliability

Applications

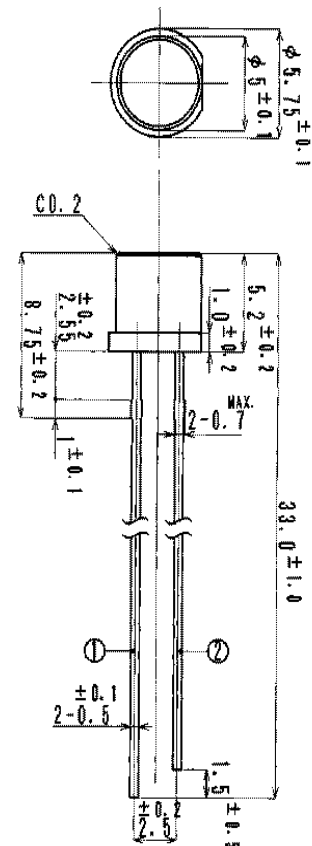
Optical Sensors
Optical Switches
Medical Applications

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Test Condition	Unit
Forward Current	I _F	50	-	mA
Pulsed Forward Current	I _{FP}	.50	tw=10μ S, T=10mS	A
Reverse Voltage	V _R	5	-	V
Power Dissipation	P _D	100.00	-	mW
Operating Temperature	T _{opr}	-20 ~ +80	-	°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 =20mA	-	1.55	2.00	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Power Output	P _O	I _F =20mA	-	6.00	-	mW
Half Intensity Beam Angle	θ	-	-	± 45°	-	deg.
Peak Wavelength	λ _p	I _F =20mA	-	770	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	-	30	-	nm
Temp Coefficient of P _O	P/T	I _F =10mA	-	-0.60	-	%/°C
Temp Coefficient of V _F	V/T	I _F =10mA	-	-2.00	-	mV/°C
Junction Capacitance	C _j	1 MHz, V=0V	-	35	-	pF



① Anode

② Cathode

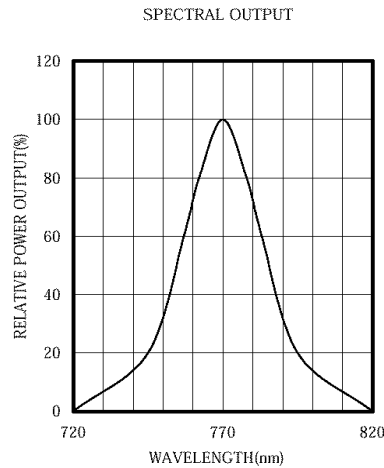
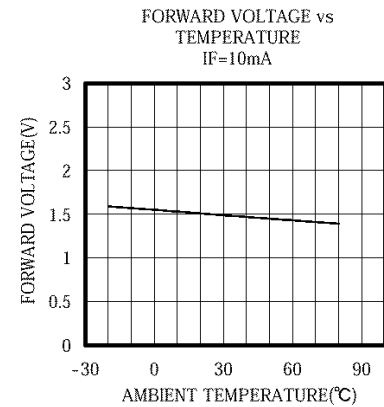
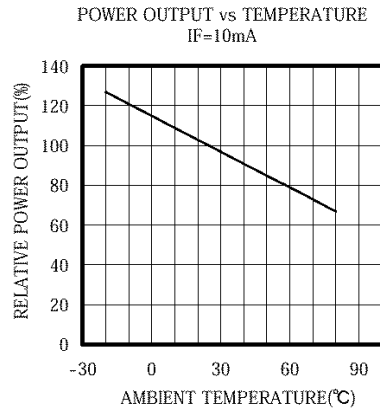
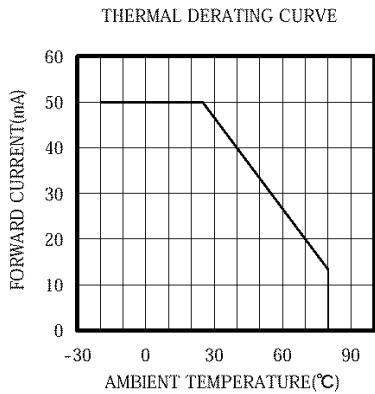
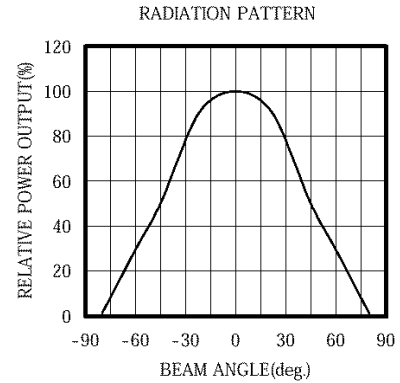
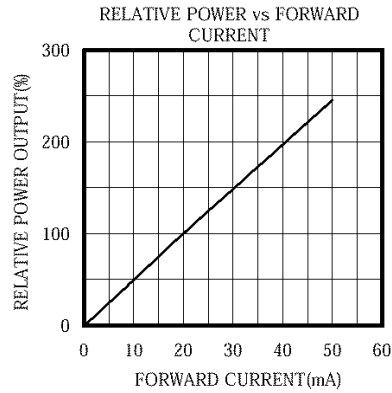
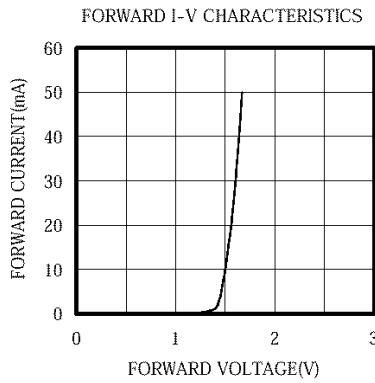
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MTE7710 Graphs



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