

## MT5066-UR

### Features

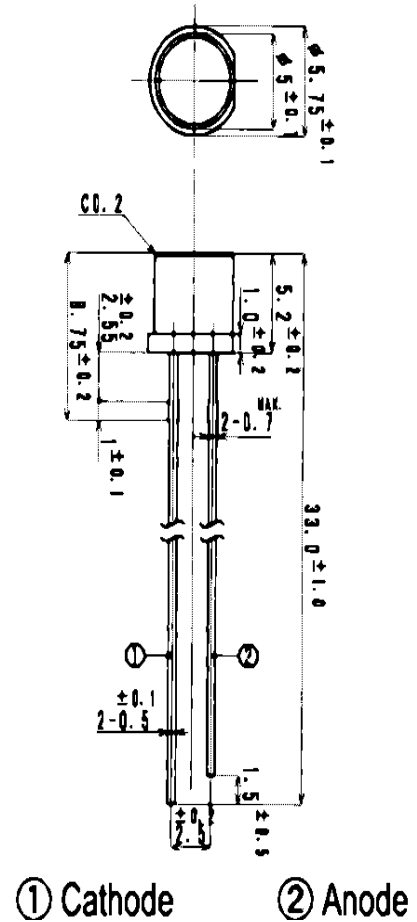
High Power Output  
High Luminous Intensity  
Wide Beam Angle

### Applications

Optical Sensors  
Bar Code Readers  
Edge Sensing  
Indicators

### Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Test Condition	Unit
Forward Current	I <sub>F</sub>	50	–	mA
Pulsed Forward Current	I <sub>FP</sub>	.50	tw=10μS, T=10mS	A
Reverse Voltage	V <sub>R</sub>	5	–	V
Power Dissipation	P <sub>D</sub>	120.00	–	mW
Operating Temperature	T <sub>opr</sub>	-20 ~ +80	–	°C
Storage Temperature	T <sub>stg</sub>	-30 ~+100	–	°C
Junction Temperature	T <sub>j</sub>	100	–	°C
Soldering Temperature	T <sub>sol</sub>	260	for 5 sec. max	°C



### Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	–	1.80	2.20	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	–	–	100	μA
Power Output	PO	I <sub>F</sub> =20mA	–	5.00	–	mW
Half Intensity Beam Angle	θ	–	–	± 40°	–	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =20mA	–	660	–	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	–	643	–	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =20mA	–	30	–	nm
Rise Time	T <sub>r</sub>	I <sub>FP</sub> =20mA	–	30.00	–	ns
Fall Time	T <sub>f</sub>	I <sub>FP</sub> =20mA	–	30.00	–	ns
Temp Coefficient of PO	P/T	I <sub>F</sub> =10mA	–	-.05	–	%/°C
Temp Coefficient of V <sub>F</sub>	V/T	I <sub>F</sub> =10mA	–	-1.50	–	mV/°C
Junction Capacitance	C <sub>j</sub>	1MHz, V=0V	–	20	–	pF

### Company Headquarters

3 Northway Lane North  
Latham, New York 12110  
Toll Free: 800.984.5337  
Fax: 518.785.4725

### West Coast Sales Office

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

## MT5066-UR Graphs

