

700nm Ultra Bright Emitter

MT85F-UR

Applications -

- Fiber Optics
- Bar Code Scanning

Features -

- Visible Light Emitter
- Excellent Optical/Mechanical Axis Alignment
- Designed to Interface With External Optics

MAXIMUM RATINGS (Ta = 25°C)

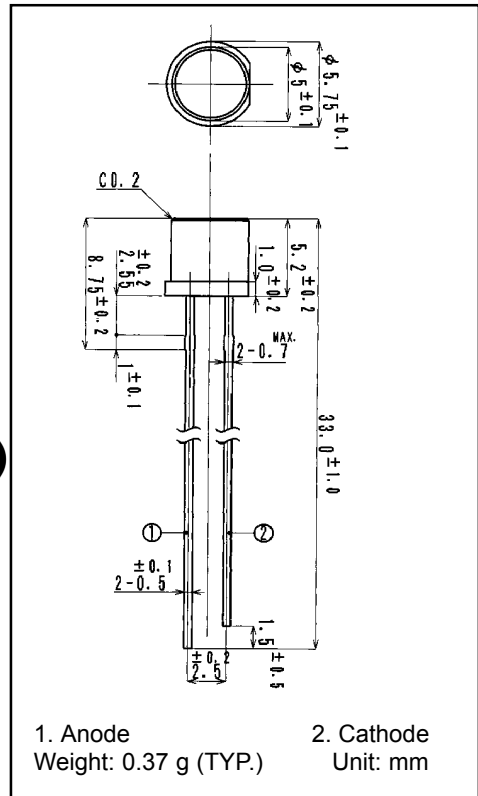
CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	I_F	50	mA
Forward Current (Pulse)*	I_{FP}	0.5	A
Reverse Voltage	V_R	3	V
Power Dissipation	P_D	120	mW
Operating Temperature	T_{opr}	-20~80	°C
Storage Temperature	T_{stg}	-30~100	°C
Soldering Temperature**	T_j	260	°C

* Pulse Width = 10 μ S, duty = 0.1%

** Time: 5 sec Max. Position: Up to 2 mm from the body

OPTO-ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Power Output	PO	IF = 20mA	1.0	2.0	—	mW
Forward Voltage	V_F	IF = 20mA	—	1.85	2.2	V
Reverse Current	I_R	VR = 3V	—	—	10	μ A
Peak Wavelength	λ_p	IF = 20mA	—	700	—	nm
Spectral Line Half Width	$\Delta\lambda$	IF = 20mA	—	25	—	nm
Switching Speed (10 ~ 90%)	T_r	IFP = 50 mA	—	80	—	nS
	T_f		—	60	—	
Half Intensity Beam Angle	θ	—	—	± 65	—	°



700nm Ultra Bright Emitter

MT85F-UR Graphs

