

Ultra Bright Emitter

MT511-UR

Applications -

- Fiber Optics
- Bar Code Scanning

Features -

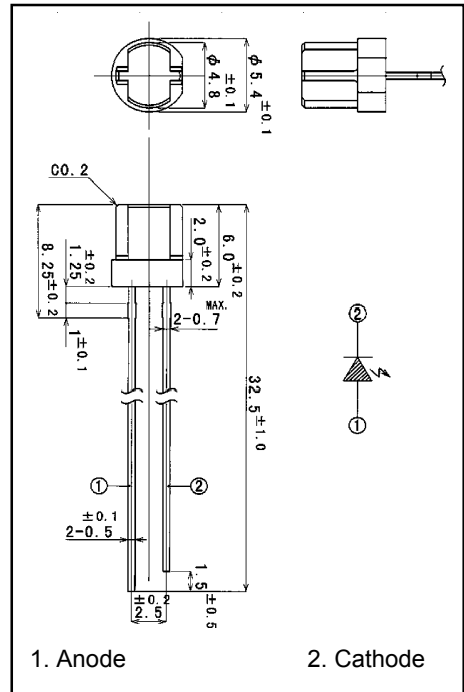
- Water Clear Package
- Ultra Bright Red Emitter
- Wide Radiation Pattern
- High Centering Accuracy

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current	I_F	50	mA
Pulse IF*	I_{FP}	.5	A
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	120	mW
Operating Temperature	T_{opr}	-20~80	°C
Storage Temperature	T_{stg}	-30~100	°C
Soldering Temperature**	T_{sol}	260	°C

* $t_w=10\mu S$, $T=10mS$

** Time: 5 sec max, up to 2mm from body

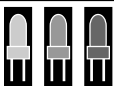


1. Anode

2. Cathode

OPTO-ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Power Output	PO	IF = 20mA	2.0	—	—	mW
Forward Voltage	V_F	IF = 20mA	—	1.8	2.2	V
Reverse Current	I_R	VR = 5V	—	—	10	μA
Peak Emission Wavelength	λ_p	IF = 20mA	—	660	—	nm
Spectral Line Half Width	$\Delta\lambda$	IF = 20mA	—	25	—	nm
Beam Angle	θ	—	—	±65	—	°



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MT511-UR Graphs

