

## Peak Emission Wavelength: 660nm

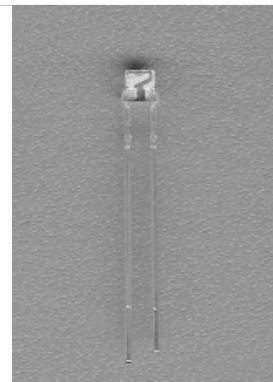
The MTE6066C2-UR is a red 3mm water clear emitter designed for applications requiring high brightness and high reliability in a wider angle package with straight leads.

### FEATURES

- > High Luminous Intensity
- > High Reliability / High Power Output
- > Excellent Optical / Mechanical Axis Alignment
- > Wide Beam Angle

### APPLICATIONS

- > Optical Sensing
- > Machine Vision
- > Bar Code Scanning / Edge Sensing
- > Fiber Optical Communications



## Absolute Maximum Ratings (Ta=25°C)

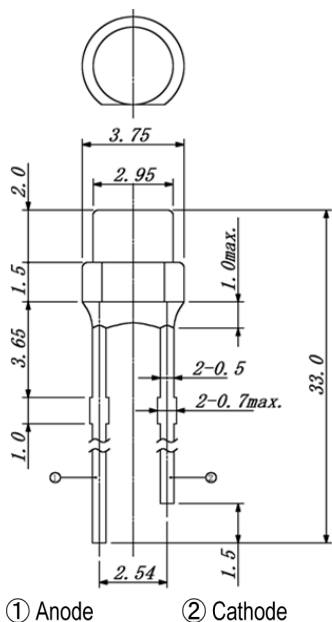


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	50	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	110	mW
Operating Temperature Range	ToPr	-20 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Junction Temperature	Tj	100	°C
Lead Soldering Temperature*2	Tls	260	°C

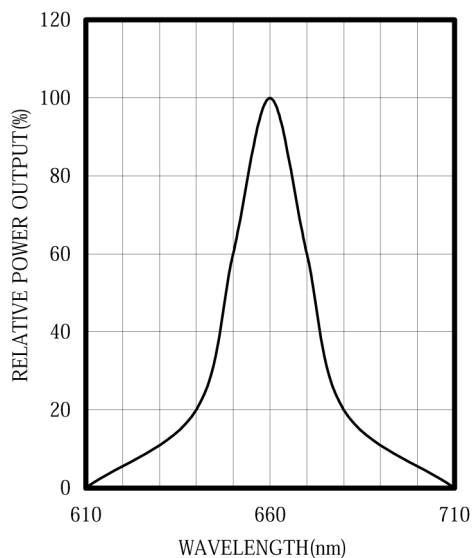
\*1: Tw=10μsec, T=10msec. \*2: Time 5 Sec max, Position: Up to 3mm from the body.

## Electrical & Optical Characteristics (Ta = 25°C)

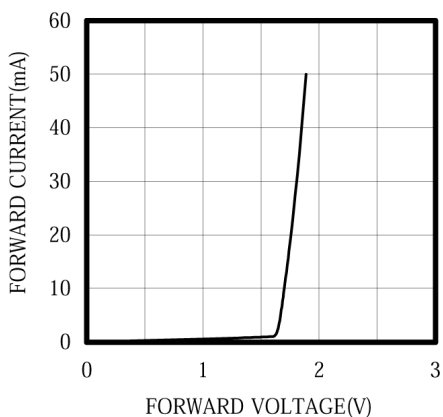
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	2.5	4.5	--	mW
Forward Voltage	VF	IF=20mA	--	1.8	2.2	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=20mA	--	660	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	25	--	nm
Rise Time	Tr	IFP=20mA	--	30	--	nS
Fall Time	Tf	IFP=20mA	--	30	--	nS
Junction Capacitance	Cj	1MHz, V=0V	--	20	--	pF
Half Intensity Beam Angle		IF=20mA	--	+/-40	--	deg.



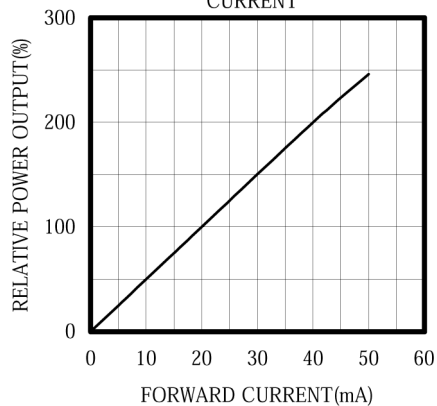
SPECTRAL OUTPUT



FORWARD I-V CHARACTERISTICS

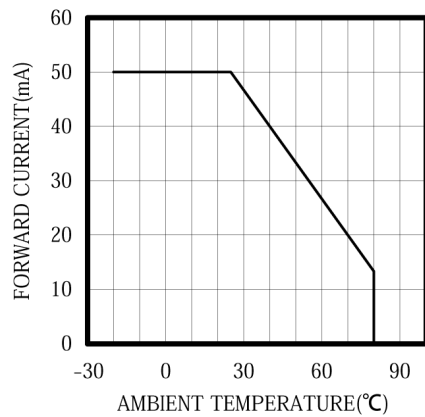


RELATIVE POWER vs FORWARD CURRENT

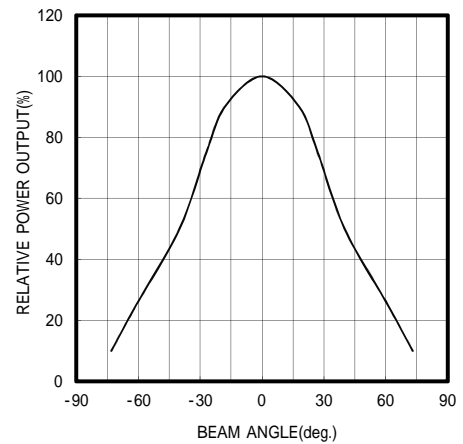


Unit: mm, Tolerance:  $\pm 0.2$

THERMAL DERATING CURVE



RADIATION PATTERN



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