Product No: MT51060-IR

Peak Emission Wavelength: 1060nm

The MT51060-IR is an infrared T 1 3/4, 5mm water clear LED designed for applications requiring high power and high speed packaged with the lens optimized to produce a narrow viewing angle.

FEATURES

- > High Power Output
- > High Speed
- > Straight Leads

APPLICATIONS

- > Optical Communications
- > Safety Equipment / Automation
- > Coin / Currency Validation



Absolute Maximum Ratings (Ta=25°C)

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ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	100	mA
Peak Forward Current*1	IFP	200	mA
Power Dissipation	PD	150	mW
Operating Temperature Range	Topr	-20 ~ +80	°C
Storage Temperature Range	Tstg	-55 ~ +100	°C
Lead Soldering Temperature*2	Tls	260	°C

*1: Test Conditions: $t_0 \le 50 \mu s$, $t_0 / T = 1/2$. *2: Time 5 Sec max, Position: Up to 3mm from case.

Electrical & Optical Characteristics (Ta = 25°C)

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ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA		1.15	1.40	V
Forward Voltage	VF	IF=100mA		1.25	1.50	V
Reverse Voltage	VR	IR=10μA	5			V
Radiant Power	Фе	IF=20mA		4		mW
Radiant Power	Фе	IF=100mA		8		mW
Peak Emission Wavelength	λр	IF=100mA	1040	1060	1080	nm
Spectral Bandwidth at 50%	$\Delta\lambda_{0.5}$	IF=100mA		80		nm
Viewing Angle	Θ	IF=100mA		20		deg.
Switching Time	T_R , T_F	IF=100mA		20		ns

2011-08-16





Product No: MT51060-IR

Marktech Optoelectronics

Infrared

TYPE

CASE

MQW

5mm Plastic Lens

Anode

1,5

36,5 ± 1,0

Unit: mm

The information contained herein is subject to change without notice.