

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Product No: MTE5900W-UY

Peak Sensitivity Wavelength: 590nm

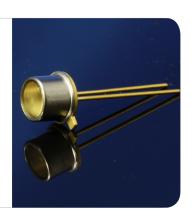
The 590nm visible emitter series is designed for applications requiring high output and precise optical / mechanical axis alignment. Custom package solutions and sorting are available.

FEATURES

- > TO-18 Metal Can Package
- > High Output Power
- > High Reliability

APPLICATIONS

- > Color Sensor / Money Bill
- > Paper Sensor / Money Bill
- > Bar-code Reader
- > Fiber Applications



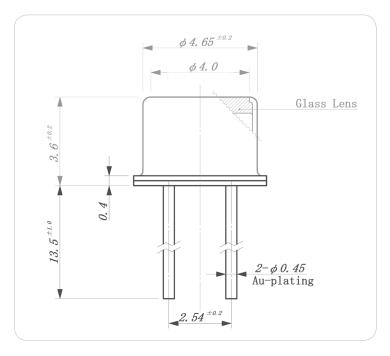
Absolute Maximum	Ratings (Ta	=25°C)		Pb
ITEMS	SYMBOL	RATINGS	UNIT	lead-free
Forward Current (DC)	IF	50	mA	
Forward Current (Pulse)*1	IFP	0.5	А	
Reverse Voltage	VR	5	V	
Power Dissipation	PD	130	mW	
Operating Temperature Range	Topr	-20 ~ +85	°C	
Storage Temperature Range	Tstg	-30 ~ +100	°C	
Junction Temperature	Tj	100	°C	
Lead Soldering Temperature*2	Tls	260	°C	

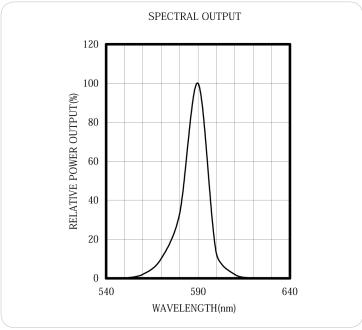
^{*1:} Tw=10µsec, T=10msec. *2: Time 5 Sec max, Position: Up to 3mm from the body.

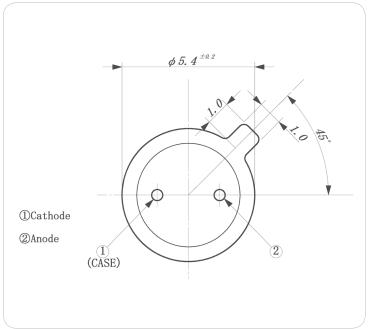
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ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	0.3	0.5		mW
Forward Voltage	VF	IF=20mA		2.1	2.5	V
Reverse Current	IR	VR=5V			100	μΑ
Peak Emission Wavelength	λρ	IF=20mA		590		nm
Spectral Line Half Width	Δλ	IF=20mA		15		nm
Half Intensity Beam Angle	Θ	IF=20mA		±20		deg
Rise Time	Tr	IFP=20mA				μS
Fall Time	Tf	IFP=20mA				μS
Junction Capacitance	Cj	1MHz, V=0V		10		pF
Temperature Coefficient of PO	P/T	IF=10mA		-0.7		%/°C
Temperature Coefficient of VF	V/T	IF=10mA		-1.8		mV/°C

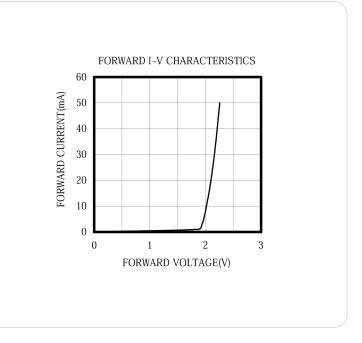
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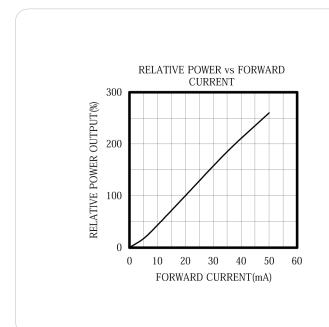


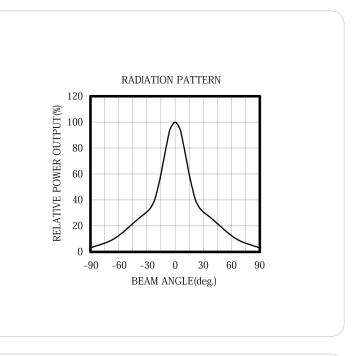


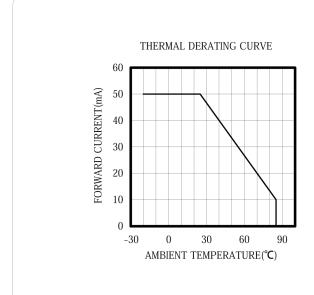


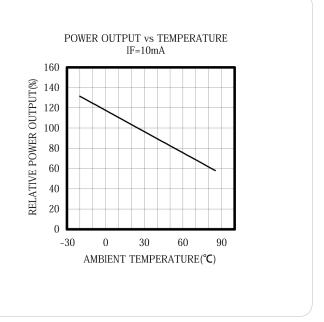
Unit: mm, Tolerance: ±0.2







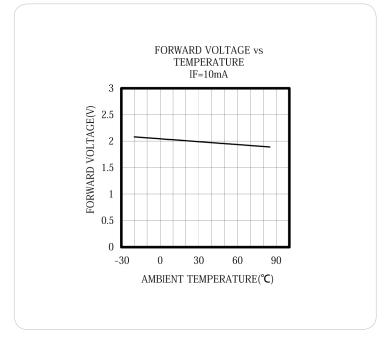


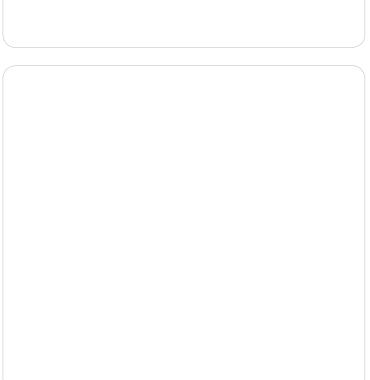




Marktech I
Optoelectronics

Product No: MTE5900W-UY





The information contained herein is subject to change without notice.

2011-09-12