

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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Infrared Light Photo Reflector

Product No: MTRS9520D

Peak Emission Wavelength: 950nm

The 950nm reflective sensor consists of a 950nm infrared emitter and high sensitivity photo diode in the same package. The black molded housing reduces the effect of external ambient light. Custom emitter/detectors are available.

FEATURES

- > High Reliability
- > Compact (Ф4.0)
- > Short Detection Distance Optimum 0.5-1.5mm

APPLICATIONS

- > Card Reader
- > Bar-code Reader
- > Edge Sensing / Money-bill Reader



Absolute Maximum Ratings (Ta=25°C)				
ITEMS	SYMBOL	RATINGS	UNIT	lead-free RoHS
Forward Current (LED)	IF	60	mA	
Pulse Forward Current (LED)*1	IFP	1	Α	
Reverse Voltage (LED)	VR	5	V	
Power Dissipation (LED)	PD	100	mW	
Reverse Voltage (PD)	VR	30	V	
Power Dissipation (PD)	PD	100	mW	
Total Power Dissipation	Ptot	100	mW	
Operating Temperature Range	Topr	-20 ~ +80	°C	
Storage Temperature Range	Tstg	-30 ~ +100	°C	
				*1. Tw. 10upon T. 10mpon

*1: Tw=10µsec,	T=10msec.
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Electrical & Optical	Characteri	stics (Ta = 25°C)
ITEMS	SYMBOL	CONDITIONS	

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT	
Forward Voltage	VF	IF=20mA		1.2	1.5	V	
Reverse Current	IR	VR=5V			10	μΑ	
Peak Emission Wavelength	λρ	IF=20mA		950		nm	
Spectral Line Half Width	Δλ	IF=20mA		50		nm	
Dark Current (Iceo)	ID	VR=10V			10	nA	
Output Current	lo	IF=20mA, VR=10V, d=1mm *	0.5	0.9		μΑ	
Cross-talk Current	lx	IF=20mA, VR=10V			1.0	nA	
Rise Time (10 to 90%)	Tr	$VR=10V$, $IF=20mA$, $RL=1K\Omega$		2.0		μS	
Fall Time (10 to 90%)	Tf	$VR=10V$, $IF=20mA$, $RL=1K\Omega$		2.0		μS	
Lead Soldering Temperature*2	Tls				260	°C	

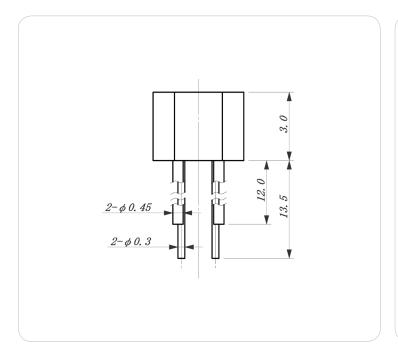
*1: Measured by reflecting with Aluminum evaporated mirror (d=1.00mm). *2: Time 5 Sec max, Position: Up to 3mm from the body.

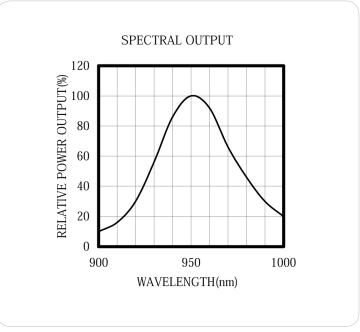
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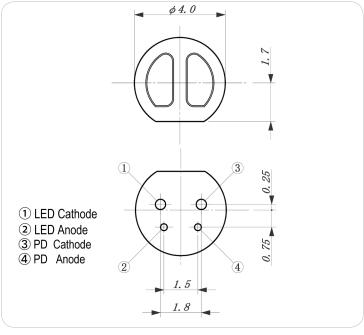


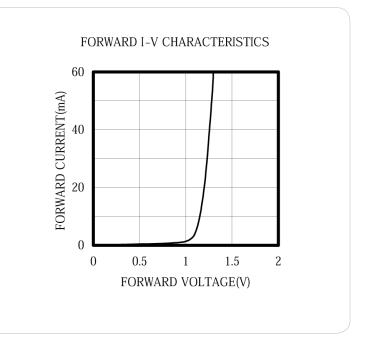


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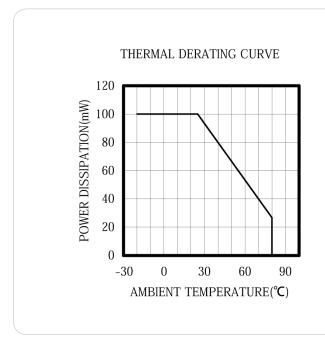


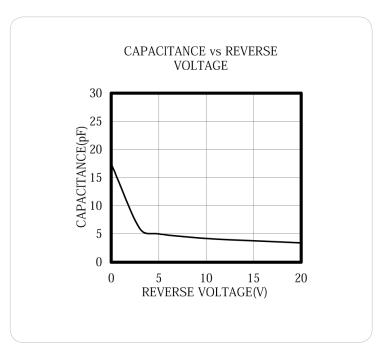


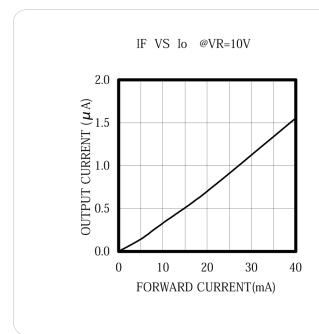
Unit: mm, Tolerance: ±0.2

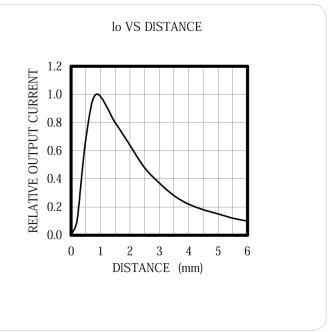


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The information contained herein is subject to change without notice.