



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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Peak Emission Wavelength: 670nm, 770nm, 810nm, 850nm, 950nm

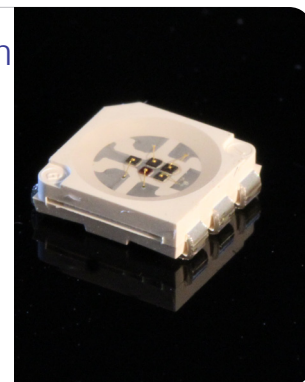
The MTMD6788594SMT6 is a multi-chip emitter designed for applications requiring same emission sources in a small, densely packaged area. These devices can be custom designed for specific wavelengths and outputs.

FEATURES

- > PLCC-6 Package
- > High Reliability
- > High Output Power

APPLICATIONS

- > Medical Instrumentation
- > Currency Validation
- > Biofluorescence Analysis



Absolute Maximum Ratings (Ta=25°C)



ITEMS	SYMBOL	RATINGS					UNIT
		670	770	810	850	950	
Forward Current (DC)	IF	50	50	80	80	80	mA
Forward Current (Pulse)*1	IFP	0.3	0.5	0.5	0.5	0.5	A
Reverse Voltage	VR	5					V
Power Dissipation	PD	120	160	190	180	160	mW
Operating Temperature Range	Topr	-20 ~ +80					°C
Storage Temperature Range	Tstg	-30 ~ +100					°C

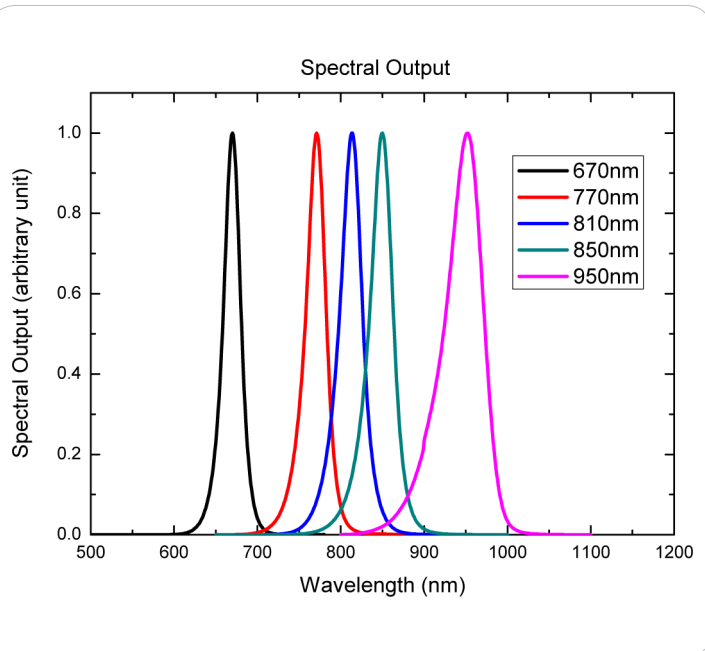
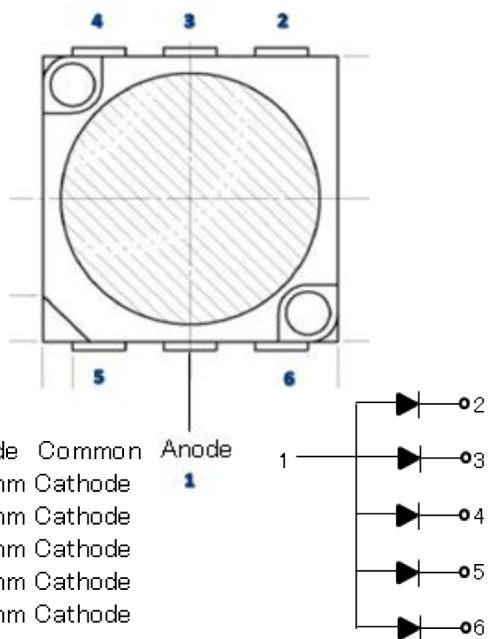
*1: Tw=10µsec, T=10msec.

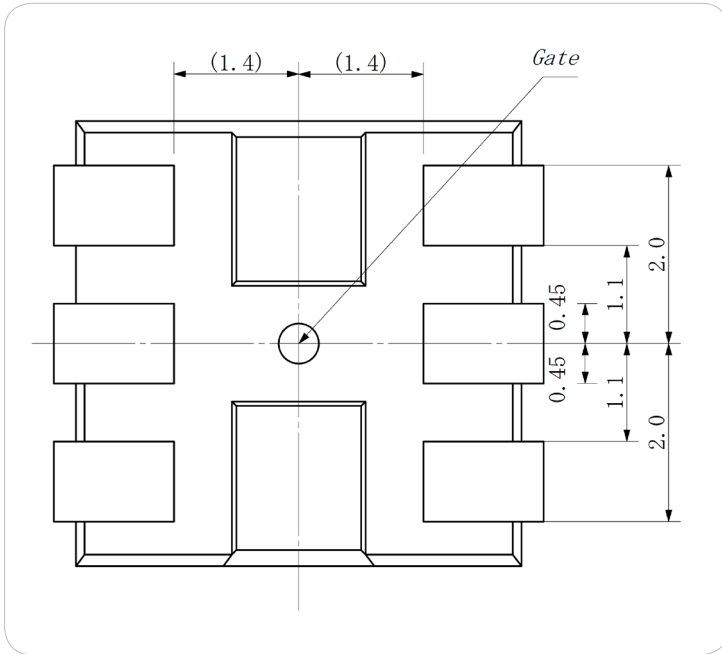
Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	WAVELENGTH	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	670	IF=20mA	--	1.8	2.2	V
Forward Voltage	VF	770	IF=20mA	--	1.65	1.9	V
Forward Voltage	VF	810	IF=20mA	--	1.50	2.1	V
Forward Voltage	VF	850	IF=20mA	--	1.45	1.9	V
Forward Voltage	VF	950	IF=20mA	--	1.25	1.9	V
Reverse Current	IR		VR=5V	--	--	100	µA
Power Output	PO	670	IF=20mA	--	5.2	--	mW
Power Output	PO	770	IF=20mA	--	6.3	--	mW
Power Output	PO	810	IF=20mA	--	5.2	--	mW
Power Output	PO	850	IF=20mA	--	4.7	--	mW
Power Output	PO	950	IF=20mA	--	7.6	--	mW

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

ITEMS	SYMBOL	WAVELENGTH	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Emission Wavelength	λ_p	770	IF=20mA	--	770	--	nm
Peak Emission Wavelength	λ_p	810	IF=20mA	--	810	--	nm
Peak Emission Wavelength	λ_p	850	IF=20mA	--	850	--	nm
Peak Emission Wavelength	λ_p	950	IF=20mA	--	950	--	nm
Spectral Line Half Width	$\Delta\lambda$	670	IF=20mA	--	25	--	nm
Spectral Line Half Width	$\Delta\lambda$	770	IF=20mA	--	35	--	nm
Spectral Line Half Width	$\Delta\lambda$	810	IF=20mA	--	35	--	nm
Spectral Line Half Width	$\Delta\lambda$	850	IF=20mA	--	35	--	nm
Spectral Line Half Width	$\Delta\lambda$	950	IF=20mA	--	45	--	nm





Unit: mm, Tolerance: ± 0.2

Soldering Conditions:

(1) Reflow Soldering

- a. Please implement the following temperature profile.
- b. Please do not handle the product until it has returned to ambient temperature.

(2) Hand Soldering

- a. Soldering tip temperature must be under 320°C.
- b. Soldering must be done within 3 seconds each.
- c. When soldering, do not add pressure to the resin portion.
- d. Please do not handle the product until it has returned to ambient temperature.

Reflow Soldering Temperature-Profile [Pb free Soldering] (Recommend condition)

