



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

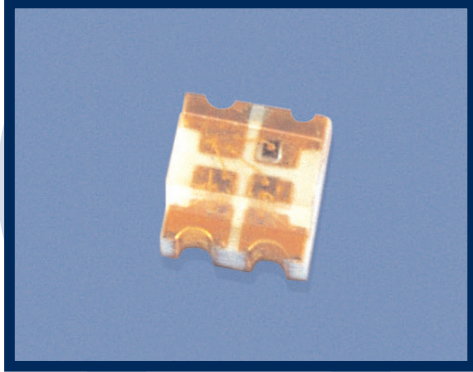
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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

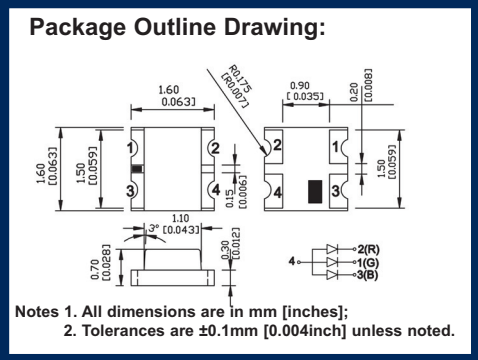


# Dialight

## Micro LED® SMD LED “598 SERIES” 0606 PACKAGE (1.6mm X 1.6mm X 0.7mm) Tri-Color



- ### FEATURES / BENEFITS
- ▲ Compatible with automatic placement equipment
  - ▲ RoHS compliant
  - ▲ Packaged in 8mm tape, 7" reel and 20 per strip
  - ▲ Meets EIA-481-1 pkg. std.



### ORDERING INFORMATION

5 9 8 - 8 7 1 0 - 3 0 7 F

7 Packaging Option

2	20 pieces on tape
7	7" reel 3000pcs / reel

## PART NUMBERS

Dialight P/N	EMITTED COLOR	MATERIAL	LENS COLOR	LUMINOUS INTENSITY			DOMINANT WAVELENGTH			FORWARD VOLTAGE			VIEWING ANGLE	PINOUT
				If = 20 ma			If = 20 ma			If = 20 ma			° DEGREES	
				MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX		
598-8710-307F	RED	AlInGaP	WATER CLEAR	40	60	80	630	635	645	1.9	2	2.2	140	SEE EXAMPLE
	GREEN	InGaN	WATER CLEAR	90	120	220	520	525	530	2.8	3.2	3.5	140	
	BLUE	InGaN	WATER CLEAR	60	90	140	465	470	475	2.8	3.2	3.5	140	
598-8720-307F	RED-ORANGE	AlInGaP	WATER CLEAR	60	80	150	620	625	630	1.8	2.2	2.4	140	4 →
	GREEN	InGaN	WATER CLEAR	90	150	220	520	525	530	2.8	3	3.5	140	
	BLUE	InGaN	WATER CLEAR	40	60	90	465	470	475	3	3.2	3.5	140	
598-8721-307F	RED-ORANGE	AlInGaP	WATER CLEAR	60	80	150	620	625	630	1.8	2.2	2.4	140	3 →
	GREEN	InGaN	WATER CLEAR	90	150	220	520	525	530	2.8	3	3.5	140	
	BLUE	InGaN	WATER CLEAR	40	60	90	465	470	475	3	3.2	3.5	140	
598-8730-307F	ORANGE	AlInGaP	WATER CLEAR	70	120	150	600	605	610	1.8	2.2	2.4	140	4 →
	GREEN	InGaN	WATER CLEAR	150	220	300	520	525	530	2.8	3.2	3.5	140	
	BLUE	InGaN	WATER CLEAR	60	90	140	465	470	475	2.8	3.2	3.5	140	
598-8740-307F	YELLOW	AlInGaP	WATER CLEAR	90	110	150	587	590	595	1.8	2.2	2.4	140	4 →
	GREEN	InGaN	WATER CLEAR	150	220	300	520	525	530	2.8	3.2	3.5	140	
	BLUE	InGaN	WATER CLEAR	60	90	140	465	470	475	2.8	3.2	3.5	140	

## ABSOLUTE RATINGS (@ Ta = 25°C)

Dialight P/N	Power Dissipation	Forward Current	Reverse Voltage	Operating Temperature Range	Storage Temperature Range	Peak Pulse Forward Current	Electrostatic Discharge
	(mW)	(mA)	(V)	(°C)	(°C)	(mA)	(HBM)
598-8710-307F	44	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
598-8720-307F	48	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
598-8721-307F	48	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
598-8730-307F	48	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
598-8740-307F	48	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000
	70	20	5	-40~+100	-40~+100	100	2000



A4703



ISO 9001



**PRELIMINARY**  
Dialight reserves the right to make changes at any time in order to supply the best product possible.  
Contact us directly for the latest information.

### Dialight Corporation

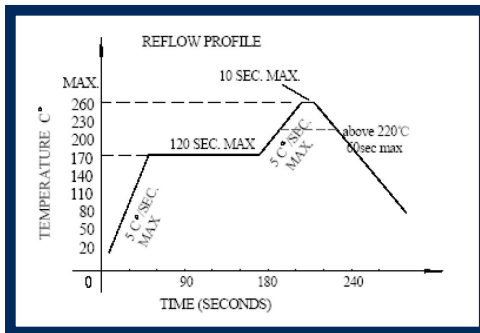
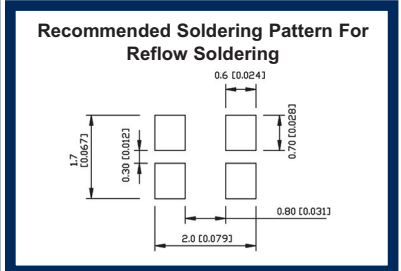
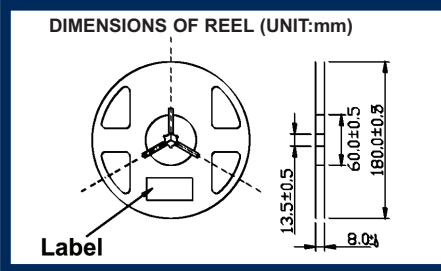
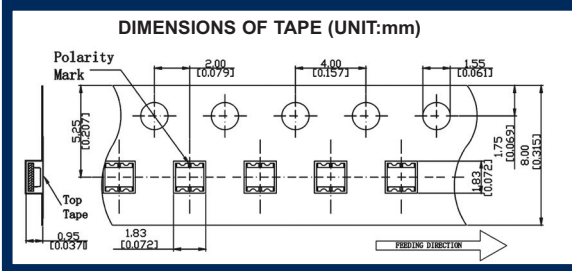
1501 Route 34 South • Farmingdale, NJ 07727 USA

Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com



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### MECHANICAL DIMENSIONS

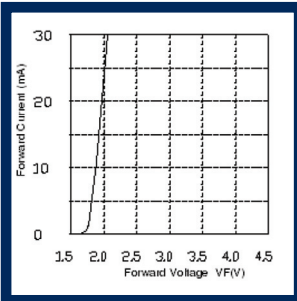


REFLOW SOLDERING		HAND SOLDERING	
Pre-heat	160~180°C	Temperature	300°C Max.
Pre-heat time	120 seconds Max.		
Peak temperature	260°C Max.	Soldering time	3 second Max (one time only)
Soldering time	10 seconds Max.		
Condition	Refer to temperature -profile		

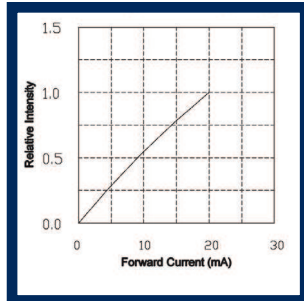
### OPTICAL AND ELECTRICAL CHARACTERISTICS CURVES

RED 630-642NM, RED-ORANGE 620-630NM, ORANGE 600-610NM, YELLOW 590-595NM, YELLOW 583-590NM, YELLOW GREEN 570-575NM, GREEN 562-570NM

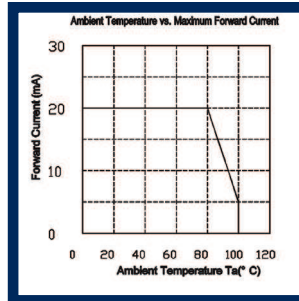
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



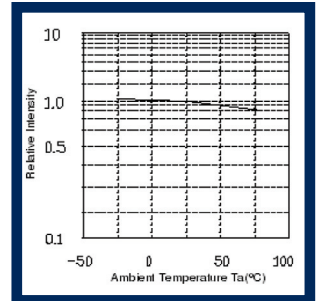
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



DERATING

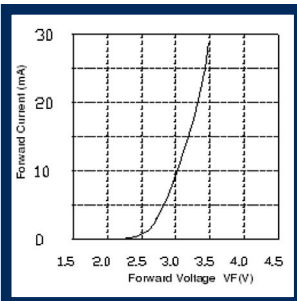


RELATIVE INTENSITY VS AMBIENT TEMPERATURE

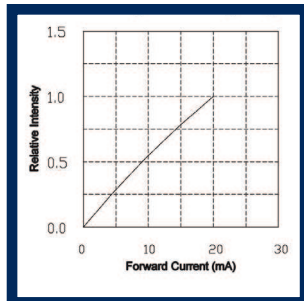


GREEN 520-525NM, BLUE 470-475NM

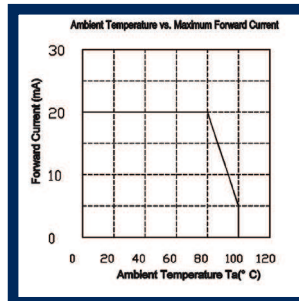
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



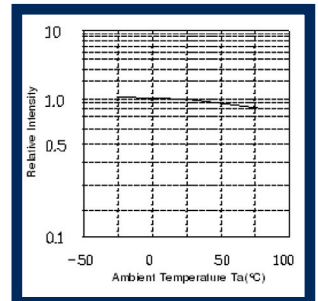
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



DERATING



RELATIVE INTENSITY VS AMBIENT TEMPERATURE



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