



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

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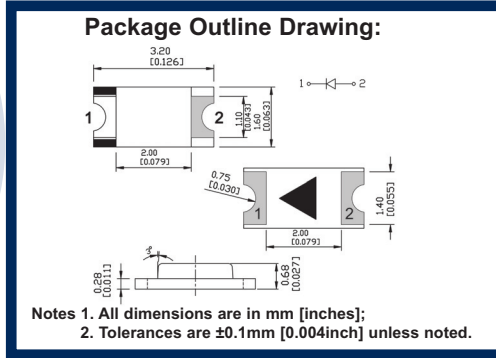
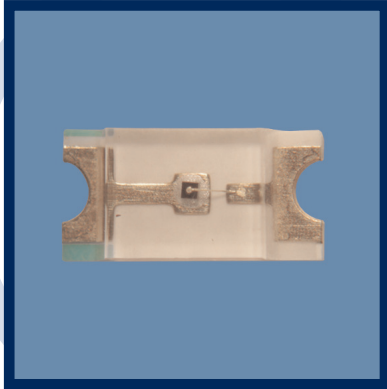
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



# Dialight

## Micro LED® SMD LED “598 SERIES” 1206 PACKAGE (3.2mm X 1.6mm X 0.7mm) Single Color Water Clear



- ### 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 2 1 0 - 1 0 **7** F  
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
				If = 20 ma			If = 20 ma			If = 20 ma			° DEGREES
				MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
598-8210-107F	RED	AlInGaP	Water Clear	30	-	80	630	635	640	1.7	2	2.4	140
598-8220-107F	RED-ORANGE	AlInGaP	Water Clear	120	150	200	620	625	630	1.7	2	2.4	140
598-8230-107F	ORANGE	AlInGaP	Water Clear	70	110	150	600	-	610	1.7	2	2.4	140
598-8240-107F	YELLOW	AlInGaP	Water Clear	100	130	160	590	-	595	1.7	2	2.4	140
598-8250-107F	YELLOW	AlInGaP	Water Clear	100	130	160	583	-	590	1.7	2	2.4	140
598-8260-107F	YELLOW-GREEN	AlInGaP	Water Clear	20	40	60	570	-	575	1.8	2	2.4	140
598-8270-107F	GREEN	GaP	Water Clear	10	20	40	562	-	570	1.8	2	2.4	140
598-8280-107F	GREEN	InGaP	Water Clear	150	220	300	520	523	525	3	3.2	3.5	140
598-8281-107F	GREEN	InGaP	Water Clear	220	300	400	520	523	525	3	3.2	3.5	140
598-8290-107F	BLUE	InGaP	Water Clear	60	90	140	470	473	475	2.8	3.2	3.5	140
598-8291-107F	BLUE	InGaP	Water Clear	90	140	160	470	473	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)
598-8210-107F	60	25	5	-30~+85	-40~+100	100	2000
598-8220-107F	60	25	5	-30~+85	-40~+100	100	2000
598-8230-107F	60	25	5	-30~+85	-40~+100	100	2000
598-8240-107F	60	25	5	-30~+85	-40~+100	100	2000
598-8250-107F	60	25	5	-30~+85	-40~+100	100	2000
598-8260-107F	60	25	5	-30~+85	-40~+100	100	2000
598-8270-107F	60	25	5	-30~+85	-40~+100	100	2000
598-8280-107F	87.5	25	5	-30~+85	-40~+100	100	1000
598-8281-107F	87.5	25	5	-30~+85	-40~+100	100	1000
598-8290-107F	87.5	25	5	-30~+85	-40~+100	100	1000
598-8291-107F	87.5	25	5	-30~+85	-40~+100	100	2000



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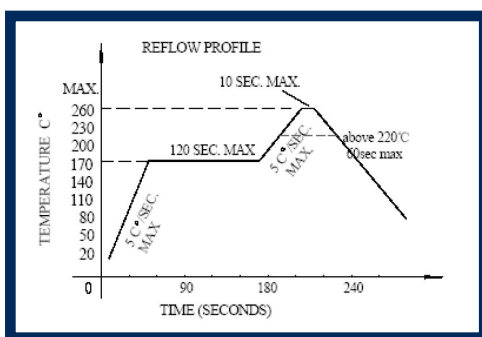
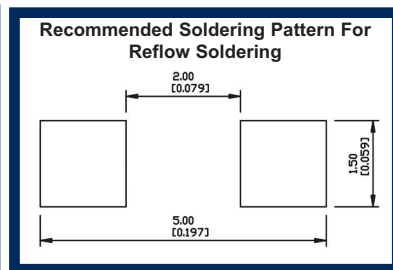
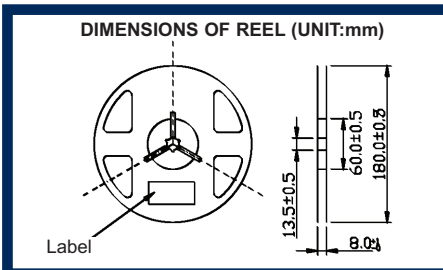
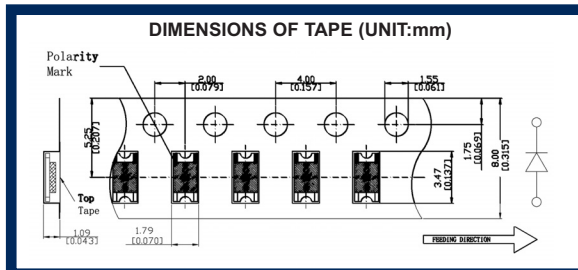
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### MECHANICAL DIMENSIONS

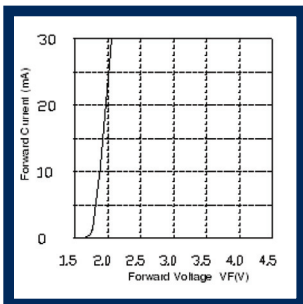


	REFLOW SOLDERING	HAND SOLDERING
Pre-heat	160~180°C	Temperature 300°C Max.
Pre-heat time	120 seconds Max.	
Peak temperature	260°C Max.	Soldering time 3 second Max (one time only)
Soldering time	10 seconds Max.	
Condition	Refer to temperature profile	

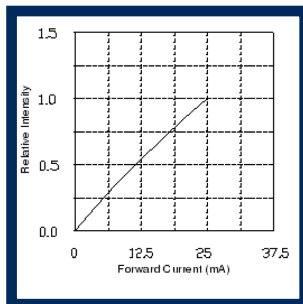
### OPTICAL AND ELECTRICAL CHARACTERISTICS CURVES

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

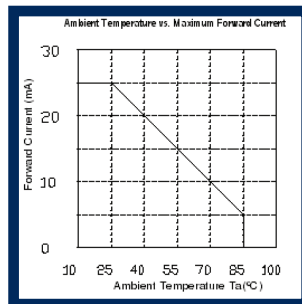
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



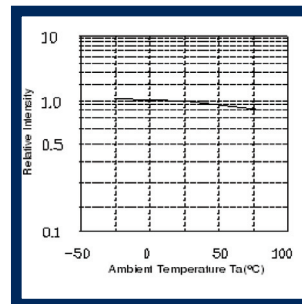
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



DERATING

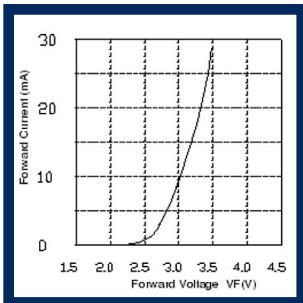


RELATIVE INTENSITY VS AMBIENT TEMPERATURE

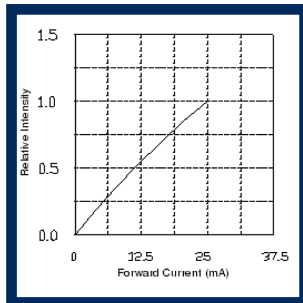


GREEN 520-525NM, BLUE 470-475NM

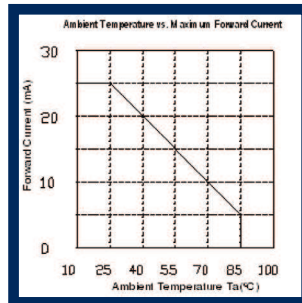
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



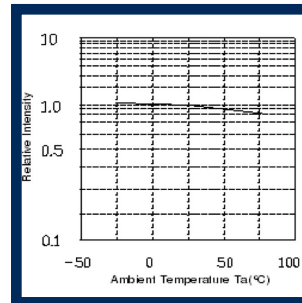
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



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RELATIVE INTENSITY VS AMBIENT TEMPERATURE



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