



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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Dialight

Micro LED® SMD LED

“598 SERIES” 1210 PACKAGE

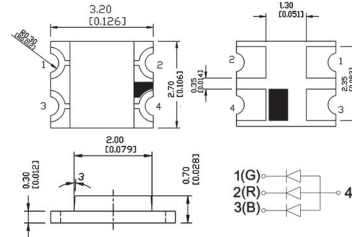
(3.2mm X 2.7mm X 0.7mm) Tri-Color



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.

Package Outline Drawing:



Notes 1. All dimensions are in mm [inches];
2. Tolerances are ±0.1mm [0.004inch] unless noted.

ORDERING INFORMATION

5 9 8 - 8 6 1 0 - 3 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 ° DEGREES	PINOUT
				MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX		
598-8610-307F	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	
598-8920-307F	RED-ORANGE	AlInGaP	Water Clear	90	120	150	620	625	630	1.9	2	2.2	140	
	GREEN	InGaN	Water Clear	90	150	220	520	525	530	3	3.2	3.5	140	
	BLUE	InGaN	Water Clear	30	60	90	465	470	475	3	3.2	3.5	140	
598-9920-307F	RED-ORANGE	AlInGaP	Diffused	40	60	80	620	625	630	1.8	2.2	2.4	140	
	GREEN	InGaN	Diffused	80	100	150	520	525	530	3	3.2	3.5	140	
	BLUE	InGaN	Diffused	30	40	60	465	470	475	3	3.2	3.5	140	
598-8930-307F	ORANGE	AlInGaP	Water Clear	70	120	150	600	605	610	1.8	2.2	2.4	140	
	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	
598-8940-307F	YELLOW	AlInGaP	Water Clear	90	110	150	587	590	592	1.8	2.2	2.4	140	
	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)
598-8610-307F	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
598-8920-307F	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
598-9920-307F	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
598-8930-307F	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
598-8940-307F	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



Dialight Corporation

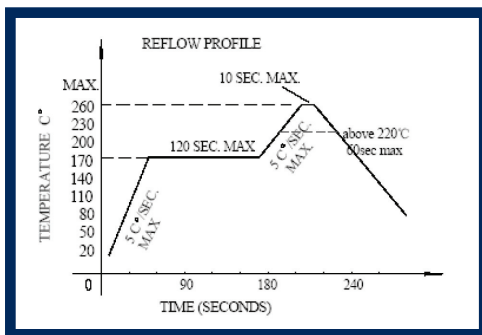
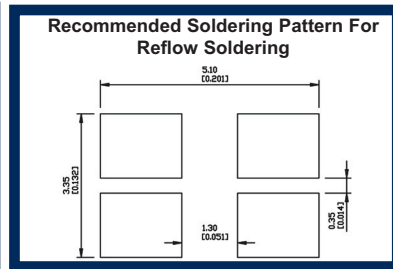
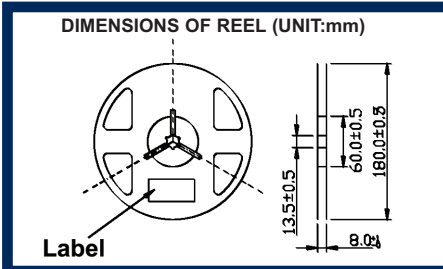
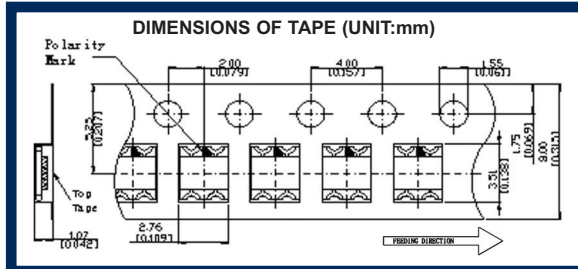
1501 Route 34 South • Farmingdale, NJ 07727 USA

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MECHANICAL DIMENSIONS

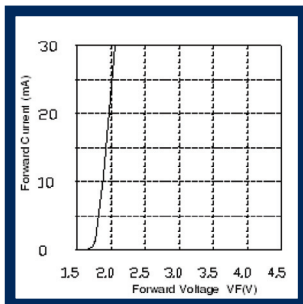


	REFLOW SOLDERING	HAND SOLDERING
Pre-heat	160~180°C	Temperature 300°C Max.
Pre-heat time	120 seconds Max.	
Peak temperature	260°C Max.	Soldering time 3 second Max (one time only)
Soldering time	10 seconds Max.	
Condition	Refer to temperature -profile	

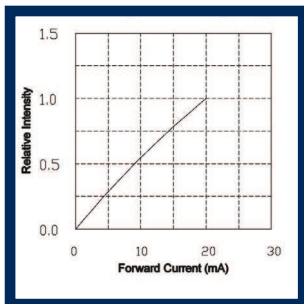
OPTICAL AND ELECTRICAL CHARACTERISTICS CURVES

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

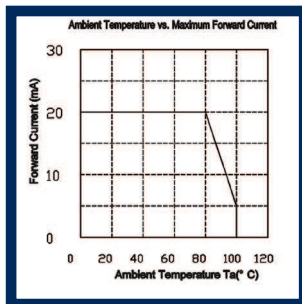
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



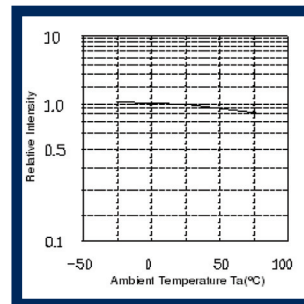
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



DERATING

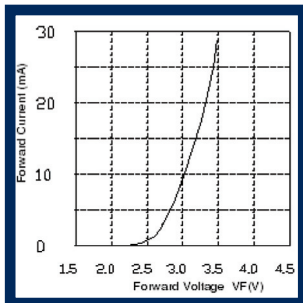


RELATIVE INTENSITY VS AMBIENT TEMPERATURE

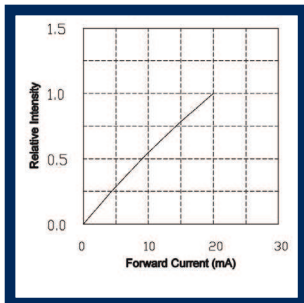


GREEN 520-525NM, BLUE 470-475NM

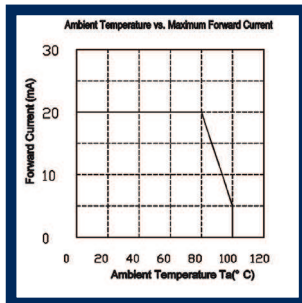
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



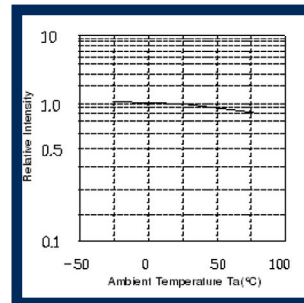
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



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RELATIVE INTENSITY VS AMBIENT TEMPERATURE



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