

Dialight

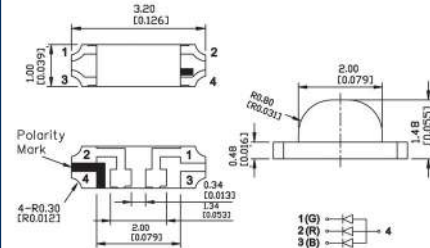
Micro LED® SMD LED “598 SERIES” 1208 PACKAGE (3.2mm X 1.5mm X 1.0mm) Tri-Color Right Angle



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:



ORDERING INFORMATION

5 9 8 - 8 8 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		
598-8810-307F	RED	AlInGaP	Water Clear	40	60	80	630	635	645	1.8	2.2	2.4	160	SEE EXAMPLE
	GREEN	InGaN	Water Clear	90	120	220	520	525	530	2.8	3.2	3.4	160	
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	2.8	3.2	3.4	160	
598-8820-307F	RED-ORANGE	AlInGaP	Water Clear	90	120	150	620	625	630	1.8	2	2.4	160	
	GREEN	InGaN	Water Clear	150	220	300	520	525	530	3	3.2	3.5	160	
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	3	3.2	3.5	160	
598-8821-307F	RED-ORANGE	AlInGaP	Water Clear	90	120	150	620	625	630	1.8	2.2	2.4	160	
	GREEN	InGaN	Water Clear	150	220	300	520	525	530	2.8	3.2	3.5	160	
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	2.8	3.2	3.5	160	
598-8830-307F	ORANGE	AlInGaP	Water Clear	70	120	150	600	605	610	1.8	2.2	2.4	160	
	GREEN	InGaN	Water Clear	150	220	300	520	525	530	2.8	3.2	3.5	160	
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	2.8	3.2	3.5	160	
598-8840-307F	YELLOW	AlInGaP	Water Clear	90	110	150	587	590	595	1.8	2.2	2.4	160	
	GREEN	InGaN	Water Clear	150	220	300	520	525	530	2.8	3.2	3.5	160	
	BLUE	InGaN	Water Clear	60	90	140	465	470	475	2.8	3.2	3.5	160	

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)
598-8810-307F	48	20	5	-40~+100	-40~+100	100	2000
	68	20	5	-40~+100	-40~+100	100	2000
	68	20	5	-40~+100	-40~+100	100	2000
598-8820-307F	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
598-8821-307F	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
598-8830-307F	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
598-8840-307F	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



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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

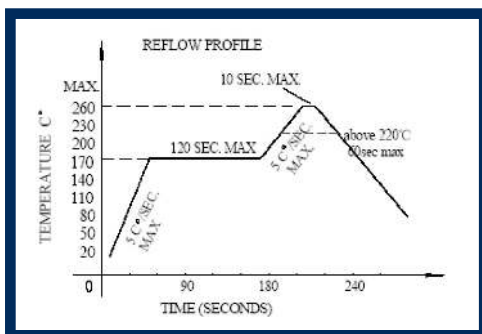
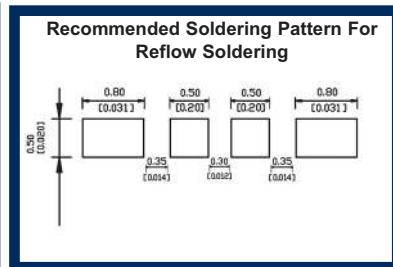
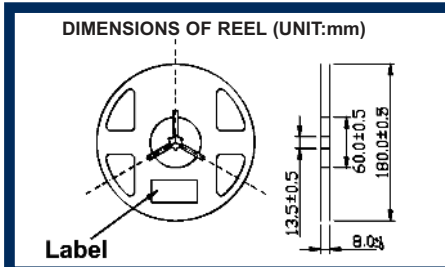
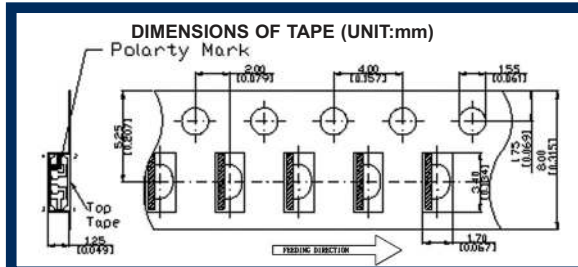
1501 Route 34 South • Farmingdale, NJ 07727 USA

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



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MECHANICAL DIMENSIONS

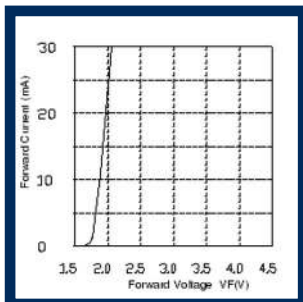


REFLOW SOLDERING		HAND SOLDERING	
Pre-heat	160~180°C	Temperature	300°C Max.
Pre-heat time	120 seconds Max.	Soldering time	3 second Max (one time only)
Peak temperature	260°C Max.	Soldering time	3 second Max (one time only)
Soldering time	10 seconds Max.	Condition	Refer to temperature -profile

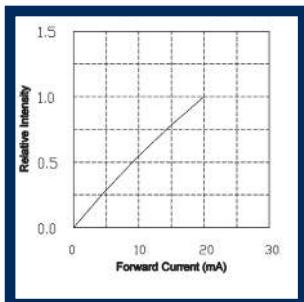
OPTICAL AND ELECTRICAL CHARACTERISTICS CURVES

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

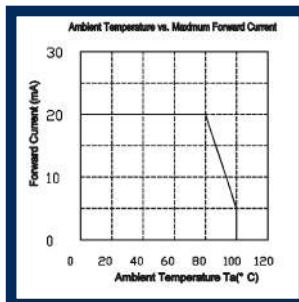
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



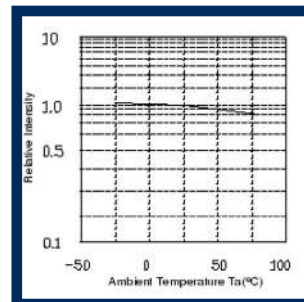
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



DERATING

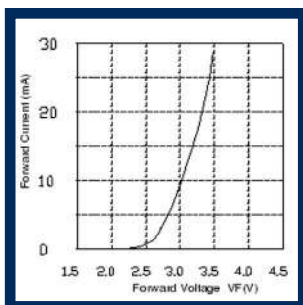


RELATIVE INTENSITY VS AMBIENT TEMPERATURE

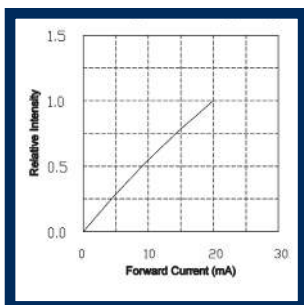


GREEN 520-525NM, BLUE 470-475NM

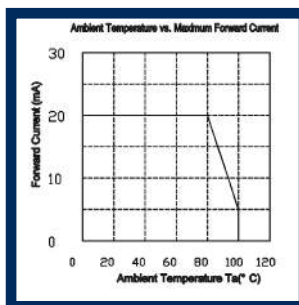
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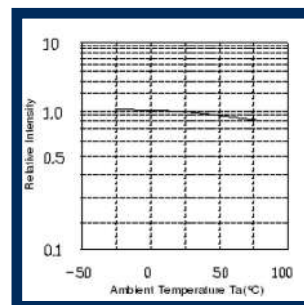
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RELATIVE INTENSITY VS AMBIENT TEMPERATURE



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