



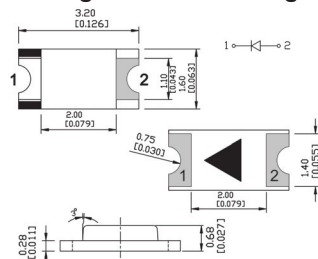
Micro LED® SMD LED

“598 SERIES” 1206 PACKAGE

(3.2mm X 1.6mm X 0.7mm) Single Color Water Clear



Package Outline Drawing:



Notes 1. All dimensions are in mm [inches];
2. Tolerances are $\pm 0.1\text{mm}$ [0.004inch] unless noted.

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

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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	InGaN	Water Clear	150	220	300	520	523	525	3	3.2	3.5	140
598-8281-107F	GREEN	InGaN	Water Clear	220	300	400	520	523	525	3	3.2	3.5	140
598-8290-107F	BLUE	InGaN	Water Clear	60	90	140	470	473	475	2.8	3.2	3.5	140
598-8291-107F	BLUE	InGaN	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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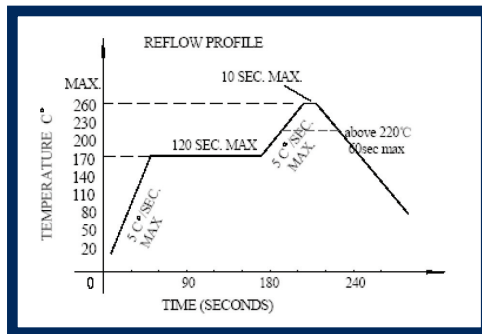
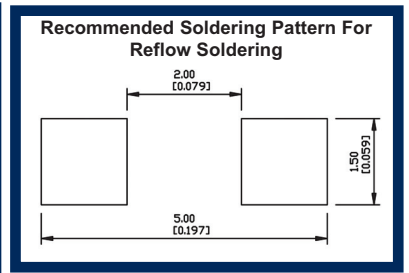
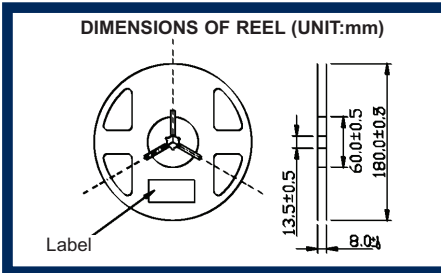
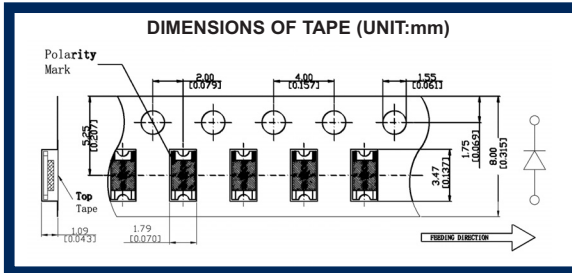
1501 Route 34 South • Farmingdale, NJ 07727 USA

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MECHANICAL DIMENSIONS

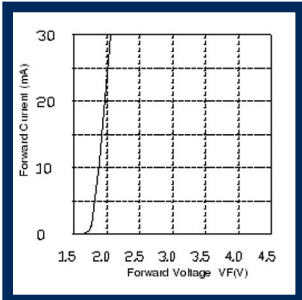


REFLOW SOLDERING	HAND SOLDERING
Pre-heat	160~180°C
Pre-heat time	120 seconds Max.
Peak temperature	260°C Max.
Soldering time	10 seconds Max.
Condition	Refer to temperature profile

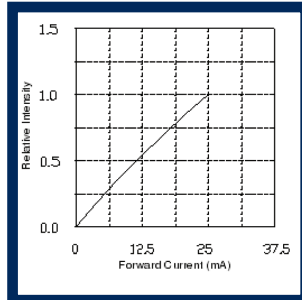
OPTICAL AND ELECTRICAL CHARACTERISTICS CURVES

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

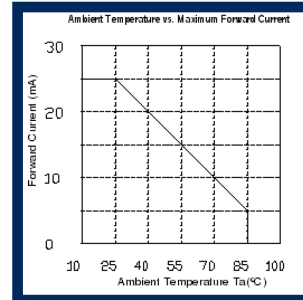
FORWARD VOLTAGE VS FORWARD CURRENT (Ta=25°C)



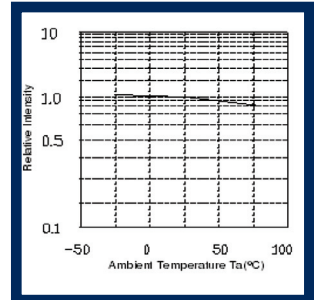
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



DERATING

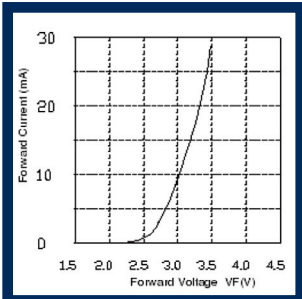


RELATIVE INTENSITY VS AMBIENT TEMPERATURE

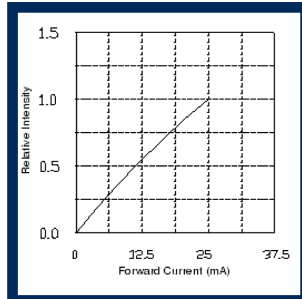


GREEN 520-525NM, BLUE 470-475NM

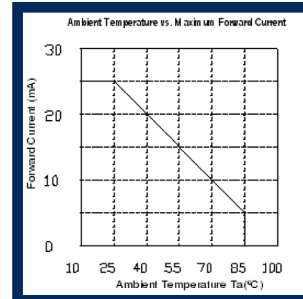
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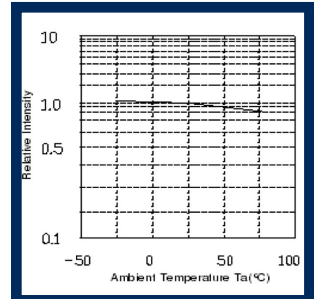
RELATIVE INTENSITY VS FORWARD CURRENT (Ta=25°C)



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RELATIVE INTENSITY VS AMBIENT TEMPERATURE



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