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Part Number: **5973301207F**


General Description

Series	597
Configuration	PLCC-2
Description	SMD LED PLCC G 7" Reel
Package Options	Tape and Reel
Lamp Type	Single Color
LED Type	GaAsP/GaP
Lens Color	Non-Diffused

Absolute Maximum Ratings (Ta = 25°)

Forward Current mA	30mA
Reverse Current	10 @ Vr =12V
Derating	from 60° @ .75mA/°C
Solder Temperature	260° for 10 sec
Operating Temperature	-40~ +100
Storage Temperature	-40~ +100

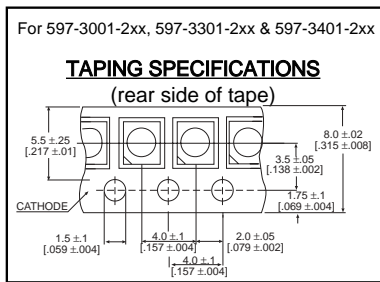
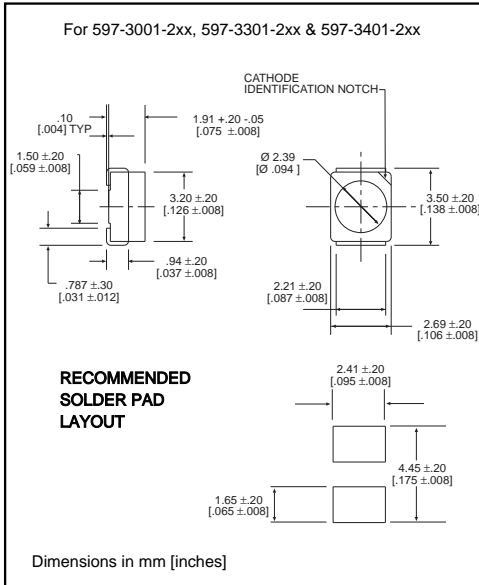
Operating Characteristics

Color	 Green
Luminous Intensity Min	11.2
Luminous Intensity Typical	19.6
Luminous Intensity Max	28
Test Current mA	10mA
Dominant Wavelength Typical	570nm
Power Dissipation Max	95mW



This is a
RoHS Compliant Product
To learn more click here

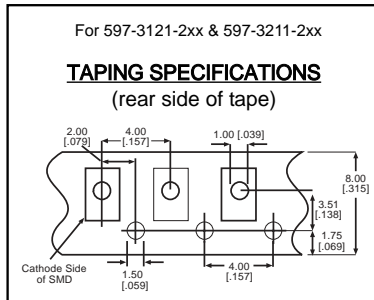
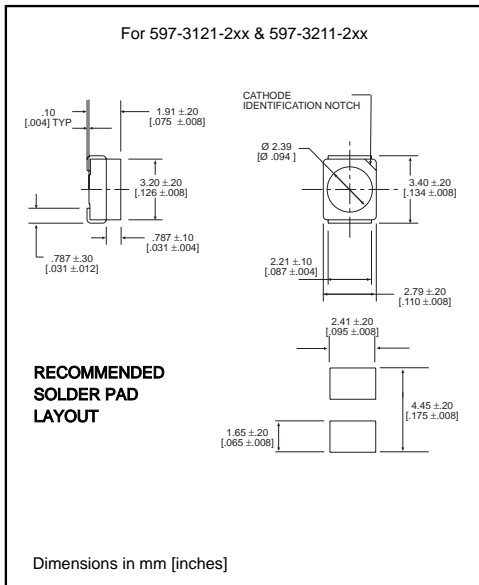




PART NO.*	COLOR
597-3001-2xx	Red
597-3121-2xx	AlGaAs Red
597-3211-2xx	Orange
597-3301-2xx	Green
597-3401-2xx	Yellow

Features

- Compatible with automatic placement equipment
- Compatible with infrared reflow processes
- Packaged on 8mm tape, 7" reels (meets EIA-481-1 standard)
- Helps to eliminate mixed technology PC board processing
- Compatible with Dialight's Optopipe™ Series light pipes



*ORDERING INFORMATION	
597-3xx1-2xx	
packaging option	
02	20 pieces on tape
07	7" reel, 2000 pcs/reel

597-3xx1-2xx

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)	Red -3001	AlGaAs Red -3121	Green -3301	Orange -3211	Yellow -3401
Power Dissipation (mW)	100	100	100	100	60
Forward Current (mA)	30	30	30	30	20
Derating (mA/°C) <i>From 25°C From 55°C</i>	.4	.66*	.4	.66*	.25
Peak Current (mA) <i>Pulse width = 100 μs *Pulse width = 10 μs</i>	120	500*	120	500*	80
Operating Temperature (°C)	-55/+85	-55/+100	-55/+85	-55/+100	-55/+85
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Soldering Profile	235°C peak 15 seconds, 185° for 90 seconds				

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)		Red -3001	AlGaAs Red -3121	Green -3301	Orange -3211	Yellow -3401
Luminous Intensity (mcd) $I_F=10\text{mA}$	Min.	4	10	4	6.3	4
	Typical	10	20	10		7
Peak Wavelength (nm) λ_{Peak}	Typical	630	660	565	610	585
Viewing Angle ($2\Theta_{1/2}$)	Typical	120°	120°	120°	120°	120°
Forward Voltage (V) $I_F=20\text{mA}$ * $I_F=10\text{mA}$	Typical	2	1.75*	2.1	2*	2.1
	Max.	2.8	2.6*	2.8	2.6*	2.8
Reverse Voltage (V), $I_R=10\mu\text{A}$	Min.	5	5	5	5	5

$\Theta_{1/2}$ is the off axis angle at which the luminous intensity is half the axial luminous intensity

