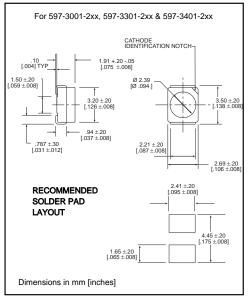
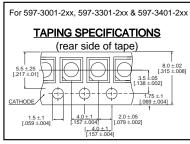


## **Surface Mount LED**

## Dialight

597-3xx1-2xx

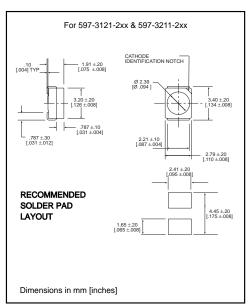


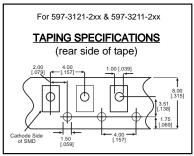


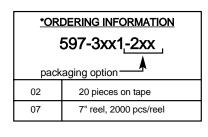
PART NO.\*COLOR597-3001-2xxRed597-3121-2xxAlGaAs Red597-3211-2xxOrange597-3301-2xxGreen597-3401-2xxYellow

## **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







## 597-3xx1-2xx

ABSOLUTE MAXIMUM RATINGS (T <sub>A</sub> =25°C)	Red <b>-3001</b>	AlGaAs Red -3121	Green <b>-3301</b>	Orange -3211	Yellow <b>-3401</b>			
Power Dissipation (mW)	100	100	100	100	60			
Forward Current (mA) Derating (mA/°C) From 25°C From 55°C	30 .4	30 .66*	30 .4	30 .66*	20 .25			
Peak Current (mA)  Pulse width = 100 μs *Pulse width = 10 μs	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 <sub>A</sub> =25°C)		Red <b>-3001</b>	AlGaAs Red -3121	Green <b>-3301</b>	Orange <b>-3211</b>	Yellow <b>-3401</b>
Luminous Intensity (mcd) I <sub>F</sub> =10mA	Min. Typical	4 10	10 20	4 10	6.3	4 7
Peak Wavelength (nm) λ Peak	Typical	630	660	565	610	585
Viewing Angle (2⊕ 1/2)	Typical	120°	120°	120°	120°	120°
Forward Voltage (V) I <sub>F</sub> =20mA *I <sub>F</sub> =10mA	Typical Max.	2 2.8	1.75* 2.6*	2.1 2.8	2* 2.6*	2.1 2.8
Reverse Voltage (V), I <sub>R</sub> =10μA	Min.	5	5	5	5	5

 $<sup>\</sup>Theta$  1/2 is the off axis angle at which the luminous intensity is half the axial luminous intensity

