



PART NO.*	COLOR
597-3001-1xx	Red
597-3111-1xx	AlGaAs Red
597-3211-1xx	Orange
597-3301-1xx	Green
597-3401-1xx	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

<b>*ORDERING INFORMATION</b>	
<b>597-3xx1-1xx</b>	
packaging option	
02	20 pieces on tape
07	7" reel, 3000 pcs/reel

<b>ABSOLUTE MAXIMUM RATINGS</b> (T <sub>A</sub> =25°C)	Red <b>-3001</b>	AlGaAs Red <b>-3111</b>	Orange <b>-3211</b>	Green <b>-3301</b>	Yellow <b>-3401</b>
Power Dissipation (mW)	65	45	80	65	70
Forward Current (mA)	25	15	25	25	25
Derating (mA/°C)	.33	.13	.33	.33	.33
Peak Current (mA) <i>Pulse width = 1 μs</i>	100	60	100	100	100
Operating Temperature (°C)	-30/+75	-30/+75	-30/+75	-30/+75	-30/+75
Storage Temperature (°C)	-30/+85	-30/+85	-30/+85	-30/+85	-30/+85
Soldering Profile	240°C to 260°C for 10 seconds				

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

<b>OPERATING CHARACTERISTICS</b> (T <sub>A</sub> =25°C)		Red <b>-3001</b>	AlGaAs Red <b>-3111</b>	Orange <b>-3211</b>	Green <b>-3301</b>	Yellow <b>-3401</b>
Luminous Intensity (mcd)	Min.	1.6	4*	3	6	3
	Typical	4	8*	8	12	8
Peak Wavelength (nm)	Typical	630	660	610	565	585
Viewing Angle (2θ ½)	Typical	170°	170°	170°	170°	160°
Forward Voltage (V)	Typical	2	1.7*	2.1	2	2.1
	Max.	2.6	2.6*	2.8	2.6	2.8
Reverse Voltage (V), I <sub>R</sub> =10μA	Min.	4	3	4	4	4

θ ½ is the off axis angle at which the luminous intensity is half the axial luminous intensity