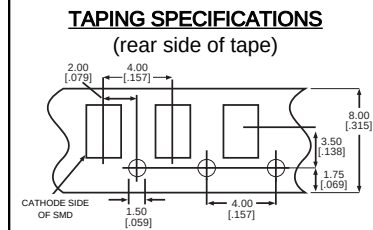
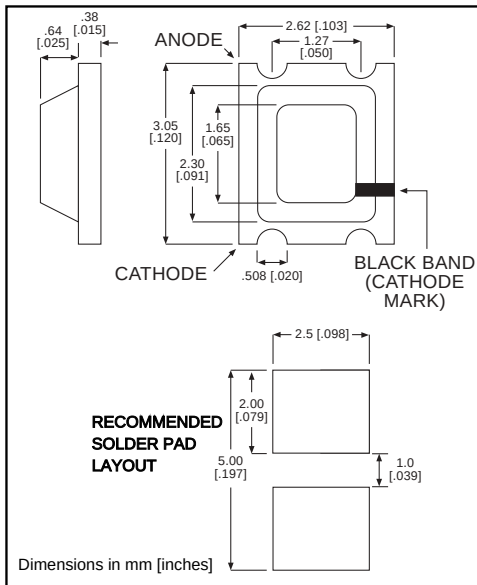


Surface Mount LED

Dialight

597-3xx1-1xx

1



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

PART NO.*

COLOR

597-3001-1xx	Red
597-3111-1xx	AlGaAs Red
597-3211-1xx	Orange
597-3301-1xx	Green
597-3401-1xx	Yellow

*ORDERING INFORMATION

597-3xx1-1xx

packaging option

02	20 pieces on tape
07	7" reel, 3000 pcs/reel

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

	Red -3001	AlGaAs Red -3111	Orange -3211	Green -3301	Yellow -3401
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)	100	60	100	100	100
Pulse width = 1 μs					
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

OPERATING CHARACTERISTICS (T_A=25°C)

		Red -3001	AlGaAs Red -3111	Orange -3211	Green -3301	Yellow -3401
Luminous Intensity (mcd)	Min.	1.6	4*	3	6	3
I _F =20mA *I _F =10mA	Typical	4	8*	8	12	8
Peak Wavelength (nm)	Typical	630	660	610	565	585
λ Peak						
Viewing Angle (2θ ½)	Typical	170°	170°	170°	170°	160°
Forward Voltage (V)	Typical	2	1.7*	2.1	2	2.1
I _F =20mA *I _F =10mA	Max.	2.6	2.6*	2.8	2.6	2.8
Reverse Voltage (V), I _R =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