

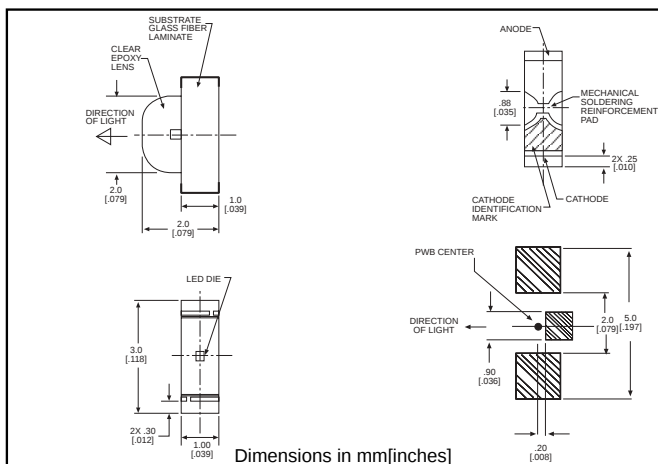


Surface Mount LED Right Angle Type Package

Dialight

597-2xx1-4xx

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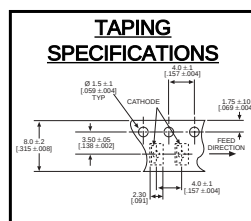


PART NO.*

597-2002-4xx
597-2111-4xx
597-2201-4xx
597-2212-4xx
597-2222-4xx
597-2311-4xx
597-2401-4xx

COLOR

Red
Red
Orange
Orange
Green
Green
Yellow



*ORDERING INFORMATION

597-2xx1-4xx

packaging option

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

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

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)	Red -2202	Red -2111	Orange -2201	Orange -2212	Amber -2222	Green -2311	Yellow -2401
Power Dissipation (mW)	81	57.5	70	81	81	70	70
Forward Current (mA)	25	25	25	25	25	25	25
Derating (mA/C°) Above 25°C	.43	.36	.36	.43	.43	.36	.36
Peak Current (mA)	30	60	60	30	30	60	60
Pulse width = 100 μs	100*			100	100		
Operating Temperature (°C)	-40/+85	-30/+85	-30/+85	-40/+85	-40/+85	-30/+85	-30/+85
Storage Temperature (°C)	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100
Soldering Temperature	260°C, 5 seconds max						

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

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)		Red -2202	Red -2111	Orange -2201	Orange -2212	Amber -2222	Green -2311	Yellow -2401
Luminous Intensity (mcd)	Min.	16	6.2	1.5	16	16	2.6	1.5
	Typical	50	12.4	3	65	65	5.2	3
Peak Wavelength (nm)	Typical	630	660	605	609	592	560	580
λ_{Peak}								
Viewing Angle ($2\theta_{1/2}$)	Typical	130°	130°	130°	130°	130°	130°	130°
Forward Voltage (V)	Typical	1.9	1.7	2.2	1.9	1.9	2.1	2.2
	Max.	2.4	2.3	2.8	2.4	2.4	2.8	2.8
Reverse Current (μA)	Max	100*	100	100	100	100*	100	100
($V_R = 4\text{V}$) * ($V_R = 5\text{V}$)								

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