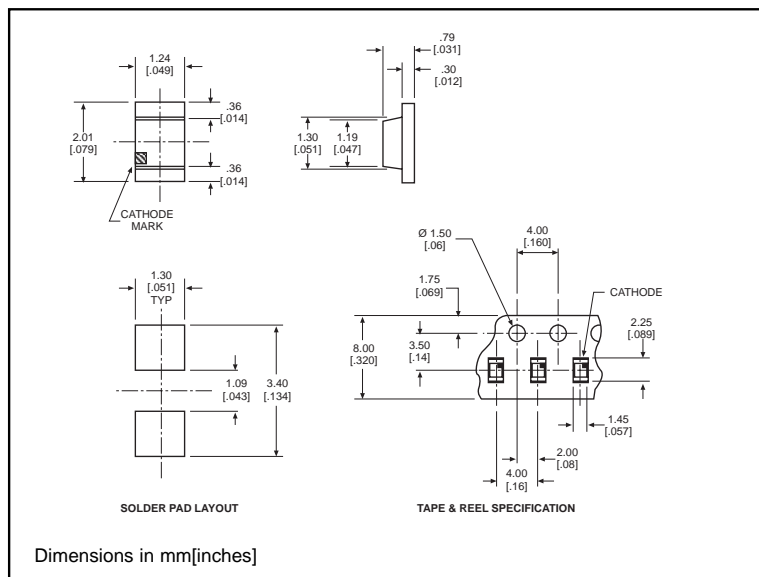


microLED[®]**Surface Mount LED
0805 Type Package****NEW****Dialight****597-5x11-4xx
597-5202-4xx****PART NO.***

597-5111-4xx
597-5202-4xx
597-5311-4xx
597-5411-4xx

COLOR

Red
Orange
Green
Yellow

Benefits

- Compatible with automatic placement equipment
- Compatible with infrared reflow processes
- Packaged on 12mm tape, 7" reels (meets EIA-481-1 standard)
- Helps to eliminate mixed technology PC board processing

ORDERING INFORMATION*597-5xxx-4xx**

packaging option

02	20 pieces on tape
07	7" reel, 4000 pcs/reel

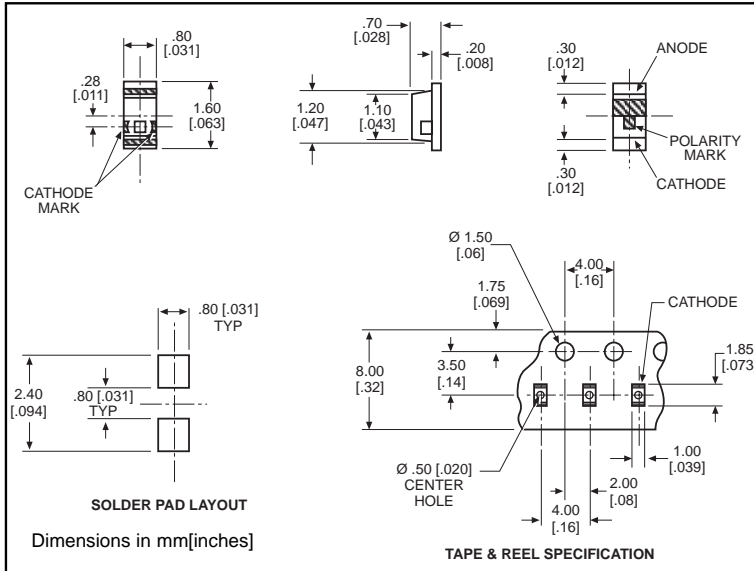
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ABSOLUTE MAXIMUM RATINGS (T _A =25°C)	Red -5111	Orange -5202	Green -5311	Yellow -5411
Power Dissipation (mW)	57.5	70	70	70
Forward Current (mA)	25	25	25	25
Derating (mA/C°) From 25°C	.36	.36	.36	.36
Peak Current (mA) Pulse width = 10 μs	60	60	60	60
Operating Temperature (°C)	-30/+85	-30/+85	-30/+85	-30/+85
Storage Temperature (°C)	-40/+100	-40/+100	-40/+100	-40/+100
Soldering Temperature	240°C, 5 sec. max			

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

OPERATING CHARACTERISTICS (T _A =25°C)	Red -5111	Orange -5202	Green -5311	Yellow -5411
Luminous Intensity (mcd)	Min.	2.2	3.8	7
I _F =20mA	Typical	11.7	6.4	11.7
Peak Wavelength (nm) λ Peak	Typical	660	605	570
Viewing Angle (2θ ½)	Typical	140°	140°	140°
Forward Voltage (V)	Typical	1.7	2.2	2.1
I _F =20mA	Max.	2.3	2.8	2.8
Reverse Current (μA) (V _R = 4V)	Max	100	100	100

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

microLED®**Surface Mount LED
0603 Type Package****NEW****Dialight****597-5004-4xx
597-5x12-4xx
597-52x3-4xx****PART NO.***

597-5004-4xx
597-5112-4xx
597-5203-4xx
597-5213-4xx
597-5223-4xx
597-5312-4xx
597-5412-4xx

COLOR

AllnGaP Red
Red
Orange
AllnGaP Orange
AllnGaP Yellow
Green
Yellow

Benefits

- Compatible with automatic placement equipment
- Compatible with infrared reflow processes
- Packaged on 12mm tape, 7" reels (meets EIA-481-1 standard)
- Helps to eliminate mixed technology PC board processing

ORDERING INFORMATION*597-5xxx-4xx**

packaging option

02	20 pieces on tape
07	7" reel, 4000 pcs/reel

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	AllnGaP Red	Red	Orange	AllnGaP Orange	AllnGaP Yellow	Green	Yellow
ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	-5004	-5112	-5203	-5213	-5223	-5312	-5412
Power Dissipation (mW)	81	57.5	70	81	81	70	70
Forward Current (mA)	30	25	25	30	30	25	25
Peak Current (mA)	100	60	60	100	100	60	60
<i>Pulse width = 10 μs</i>							
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	240°C, 5 sec. max						

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

		AllnGaP Red	Red	Orange	AllnGaP Orange	AllnGaP Yellow	Green	Yellow
OPERATING CHARACTERISTICS (T_A=25°C)		-5004	-5112	-5203	-5213	-5223	-5312	-5412
Luminous Intensity (mcd)	Min.	16	7	2	16	16	3.8	7
	Typical	50	11.7	3.4	65	65	6.4	11.7
Peak Wavelength (nm)	Typical	630	660	605	609	592	560	570
	λ _{Peak}							
Viewing Angle (2θ ½)	Typical	152°	152°	152°	152°	152°	152°	152°
Forward Voltage (V)	Typical	1.9	1.7	2.2	1.9	1.9	2.1	2.1
	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 = 5V) * (V _R = 4V)							

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

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