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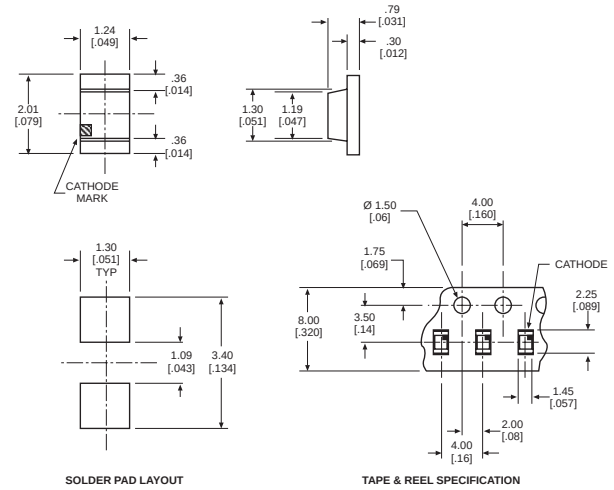
NEW

microLED®

Surface Mount LED
0805 Type Package

Dialight

597-5x11-4xx
597-5202-4xx



Dimensions in mm[inches]

PART NO.*	COLOR
597-5111-4xx	Red
597-5202-4xx	Orange
597-5311-4xx	Green
597-5411-4xx	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 Adherance per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS (T_A=25°C)		Red **-5111**	Orange **-5202**	Green **-5311**	Yellow **-5411**
Luminous Intensity (mcd)	Min.	7	2.2	3.8	7
I_F=20mA	Typical	11.7	3.7	6.4	11.7
Peak Wavelength (nm) λ Peak	Typical	660	605	560	570
Viewing Angle (2Θ ½)	Typical	140°	140°	140°	140°
Forward Voltage (V)	Typical	1.7	2.2	2.1	2.1
I_F=20mA	Max.	2.3	2.8	2.8	2.8
Reverse Current (µA) (V_R = 4V)	Max	100	100	100	100

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

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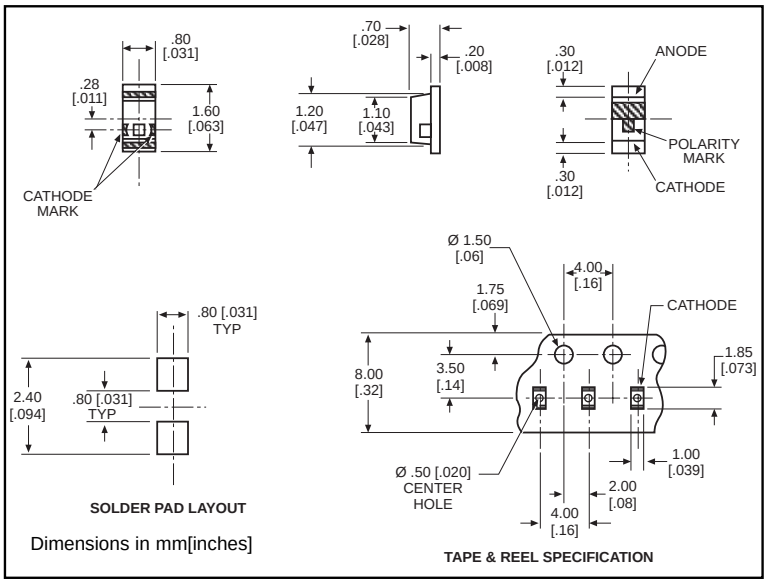
NEW

microLED®

Surface Mount LED
0603 Type Package

Dialight

597-5004-4xx
597-5x12-4xx
597-52x3-4xx



Dimensions in mm[inches]

PART NO.*	COLOR
597-5004-4xx	AlInGaP Red
597-5112-4xx	Red
597-5203-4xx	Orange
597-5213-4xx	AlInGaP Orange
597-5223-4xx	AlInGaP Yellow
597-5312-4xx	Green
597-5412-4xx	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)	AlInGaP Red **-5004**	Red **-5112**	Orange **-5203**	AlInGaP Orange **-5213**	AlInGaP Yellow **-5223**	Green **-5312**	Yellow **-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) *Pulse width = 10 µs*	100	60	60	100	100	60	60
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 Adherance per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS (T_A=25°C)		AlInGaP Red **-5004**	Red **-5112**	Orange **-5203**	AlInGaP Orange **-5213**	AlInGaP Yellow **-5223**	Green **-5312**	Yellow **-5412**
Luminous Intensity (mcd)	Min.	16	7	2	16	16	3.8	7
I_F=20mA	Typical	50	11.7	3.4	65	65	6.4	11.7
Peak Wavelength (nm) λ Peak	Typical	630	660	605	609	592	560	570
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
I_F=20mA	Max.	2.4	2.3	2.8	2.4	2.4	2.8	2.8
Reverse Current (µA) (V_R = 5V) * (V_R = 4V)	Max	100	100*	100*	100	100	100*	100*

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

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