

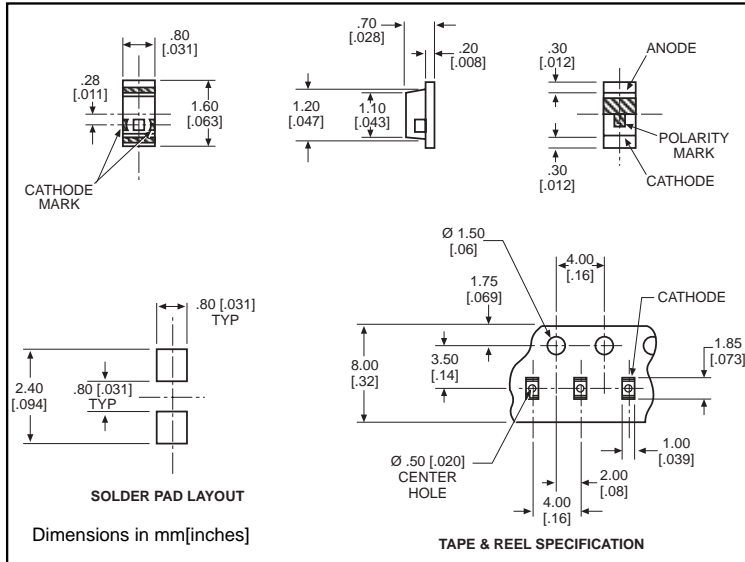
microLED®

NEW

Dialight

**Surface Mount LED
0603 Type Package**

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 \uparrow

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

	AllnGaP Red	Red	Orange	AllnGaP Orange	AllnGaP Yellow	Green	Yellow
ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)	-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 ($^\circ\text{C}$)	-40/+85	-30/+85	-30/+85	-40/+85	-40/+85	-30/+85	-30/+85
Storage Temperature ($^\circ\text{C}$)	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100
Soldering Temperature	240 $^\circ\text{C}$, 5 sec. max						

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

	AllnGaP Red	Red	Orange	AllnGaP Orange	AllnGaP Yellow	Green	Yellow
OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)	-5004	-5112	-5203	-5213	-5223	-5312	-5412
Luminous Intensity (mcd)	Min. 16	7	2	16	16	3.8	7
$I_F=20\text{mA}$	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 ($2\theta_{1/2}$)	Typical 152 $^\circ$	152 $^\circ$	152 $^\circ$	152 $^\circ$	152 $^\circ$	152 $^\circ$	152 $^\circ$
Forward Voltage (V)	Typical 1.9	1.7	2.2	1.9	1.9	2.1	2.1
$I_F=20\text{mA}$	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*
($V_R = 5\text{V}$) * ($V_R = 4\text{V}$)							

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