Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Dialight
5973003402F

For any questions, you can email us directly:
sales@integrated-circuit.com

microLED®

Surface Mount LED
0805 Type Package High Intensity LEDs

Dialight

597-3xxx-4xx
597-5x11-4xx
597-5202-4xx

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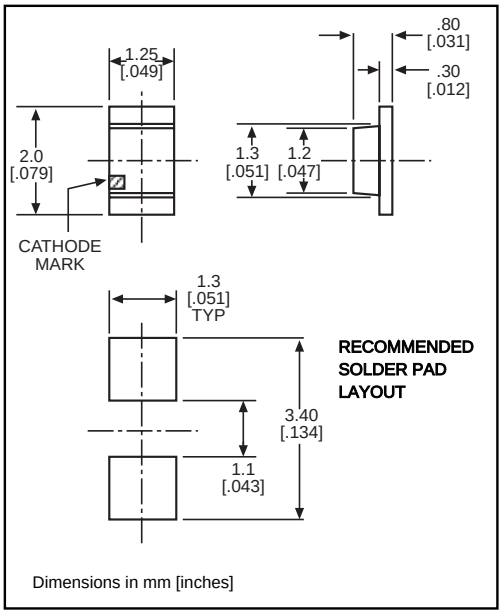
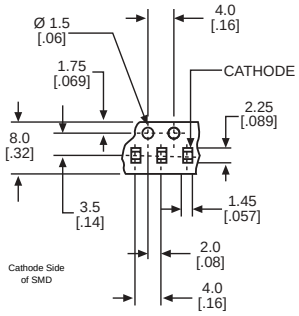


TAPING SPECIFICATIONS
(rear side of tape)



***ORDERING INFORMATION**

597-3xxx-4xx

packaging option

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

PART NO.*	COLOR
597-3003-4xx	AlInGaP Red
597-3212-4xx	Orange
597-3222-4xx	Yellow
597-5111-4xx	Red
597-5202-4xx	Orange
597-5311-4xx	Green
597-5411-4xx	Yellow

Features

- Very bright light output
- Highly efficient AlInGap die
- Compatible with automatic placement equipment
- Compatible with infrared reflow processes
- Packaged on 8mm tape, 7" reels (meets EIA-481-1 standard)
- Compatible with Dialight's Optopipe™ Series light pipes

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	AlInGaP Red -3003	Orange -3212	Yellow -3222	Red -5111	Orange -5202	Green -5311	Yellow -5411
Power Dissipation (mW)	81	81	81	57.5	70	70	70
Forward Current (mA)	30	30	30	25	25	25	25
Derating (mA/°C) *From 25°C*	.43	.43	.43	.36	.36	.36	.36
Peak Current (mA) *Pulse width = 1 µs*	100	100	100	60	60	60	60
Operating Temperature (°C)	-40/+85	-40/+85	-40/+85	-30/+85	-30/+85	-30/+85	-30/+85
Storage Temperature (°C)	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100
Soldering Profile	280°C peak 3 seconds			240°C peak 5 seconds			

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

OPERATING CHARACTERISTICS (T_A=25°C)		AlInGaP Red -3003	Orange -3212	Yellow -3222	Red -5111	Orange -5202	Green -5311	Yellow -5411
Luminous Intensity (mcd)	Min.	16	16	16	7	2.2	3.8	7
I_F=20mA	Typical	50	65	65	11.7	3.7	6.4	11.7
Peak Wavelength (nm) λ Peak	Typical	630	609	594	660	605	560	570
Viewing Angle ($2\Theta^{1/2}$)	Typical	156°	156°	156°	140°	140°	140°	140°
Forward Voltage (V)	Typical	1.9	1.9	1.9	1.7	2.2	2.1	2.1
I_F=20mA	Max.	2.4	2.4	2.4	2.3	2.8	2.8	2.8
Reverse Current (µA) (V_R = 5V)	Max	100	100	100	100	100	100	100

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