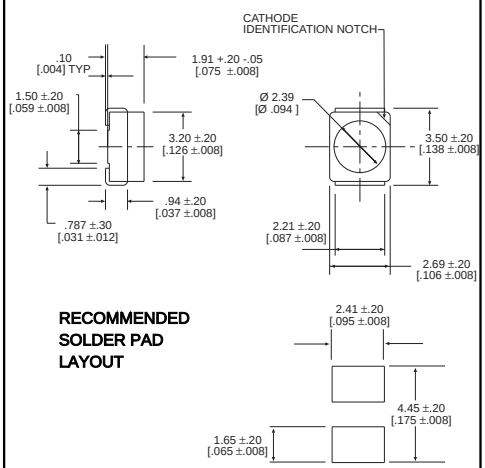
microLED®

Surface Mount LED

Dialight

597-3xx1-2xx

For 597-3001-2xx, 597-3301-2xx & 597-3401-2xx

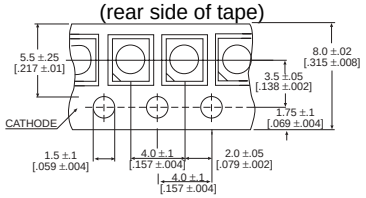


Dimensions in mm [inches]

For 597-3001-2xx, 597-3301-2xx & 597-3401-2xx

TAPING SPECIFICATIONS

(rear side of tape)

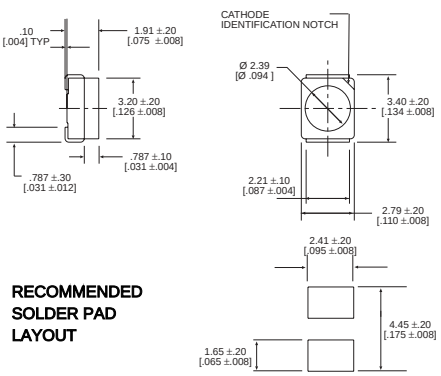


PART NO.*	COLOR
597-3001-2xx	Red
597-3121-2xx	AlGaAs Red
597-3211-2xx	Orange
597-3301-2xx	Green
597-3401-2xx	Yellow

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
- Compatible with Dialight's Optopipe™ Series light pipes

For 597-3121-2xx & 597-3211-2xx

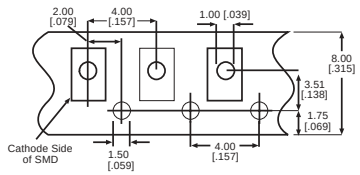


Dimensions in mm [inches]

For 597-3121-2xx & 597-3211-2xx

TAPING SPECIFICATIONS

(rear side of tape)



***ORDERING INFORMATION**

597-3xx1-2xx

packaging option

02	20 pieces on tape
07	7" reel, 2000 pcs/reel

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Red **-3001**	AlGaAs Red **-3121**	Green **-3301**	Orange **-3211**	Yellow **-3401**
Power Dissipation (mW)	100	100	100	100	60
Forward Current (mA)	30	30	30	30	20
Derating (mA/°C) *From 25°C ˚From 55°C*	.4	.66*	.4	.66*	.25
Peak Current (mA)	120	500*	120	500*	80
*Pulse width = 100 µs *Pulse width = 10 µs*					
Operating Temperature (°C)	-55/+85	-55/+100	-55/+85	-55/+100	-55/+85
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Soldering Profile	235°C peak 15 seconds, 185° for 90 seconds				

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

OPERATING CHARACTERISTICS (T_A=25°C)		Red **-3001**	AlGaAs Red **-3121**	Green **-3301**	Orange **-3211**	Yellow **-3401**
Luminous Intensity (mcd)	Min.	4	10	4	6.3	4
I_F=10mA	Typical	10	20	10		7
Peak Wavelength (nm)	Typical	630	660	565	610	585
λ Peak						
Viewing Angle ($2\Theta_{1/2}$)	Typical	120°	120°	120°	120°	120°
Forward Voltage (V)	Typical	2	1.75*	2.1	2*	2.1
I_F=20mA *I_F=10mA	Max.	2.8	2.6*	2.8	2.6*	2.8
Reverse Voltage (V), I_R=10µA	Min.	5	5	5	5	5

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dialight:

597-3121-202F 597-3211-207 597-3301-207 597-3401-207 597-3121-207 597-3001-207 597-3001-202F 597-3301-202F 597-3301-202F