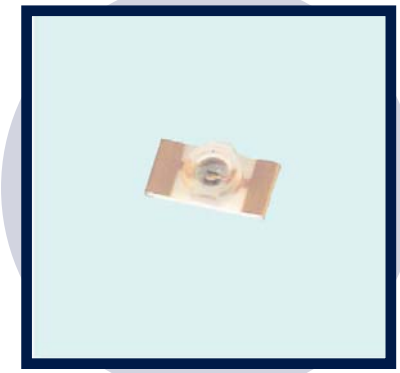
Dialight

597-6XX1-60XF SERIES
microLED® SMD LEDs
REVERSE MOUNT 1206 PACKAGE
(3.2MM X 1.6MM X 1.1MM)



Note: -602F = Pkg 20 pcs / strip
-607F = Pkg 3000 pcs / 7" reel

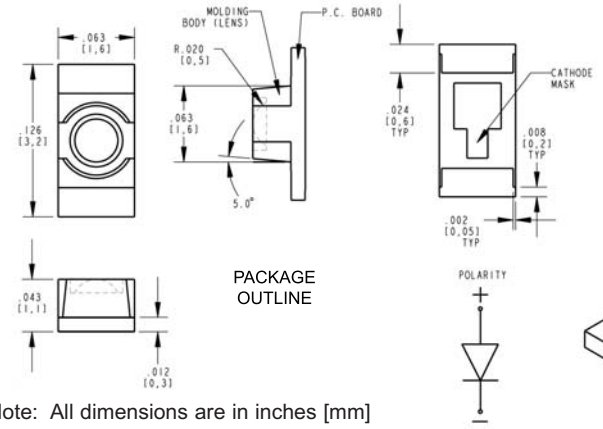
FEATURES / BENEFITS

- RoHS Compliant
- Gold (Au) plated lead finish
- Compatible with automatic placement equipment
- Compatible with RoHS compliant surface mount reflow soldering processes
- Packaged in moisture barrier bags for dry packaging per IPC/JEDEC J-STD-033, moisture sensitivity level 3

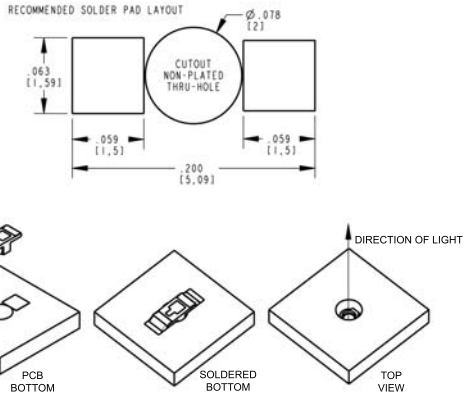
APPLICATIONS

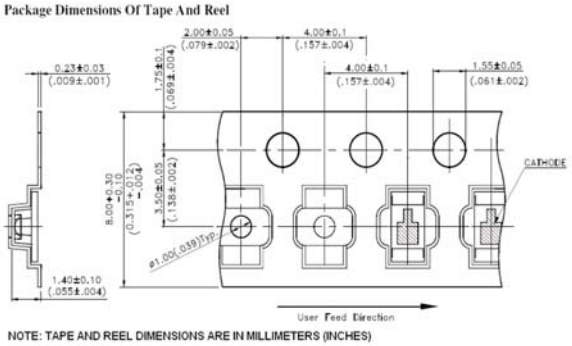
Reverse mount 597 series microLED® are available in a variety of colors in AlInGaP and InGaN chip technology for high brightness applications. Reverse mount channels the light into various applications such as light pipes, and backlighting.

SPECIFICATIONS

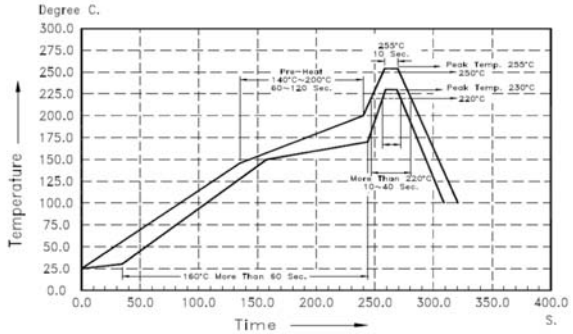


Note: All dimensions are in inches [mm]





NOTE: TAPE AND REEL DIMENSIONS ARE IN MILLIMETERS (INCHES)



RECOMMENDED RoHS SOLDER PROFILE

DIALIGHT RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME IN ORDER TO SUPPLY THE BEST PRODUCT POSSIBLE.

Dialight Corporation
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A4703 UL REGISTERED FIRM ISO 9001 Dialight Corporation

RoHS COMPLIANT

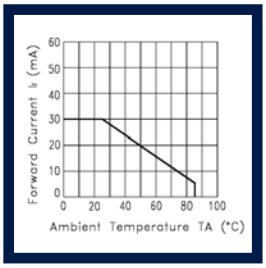
1206 REVERSE MOUNT LED PACKAGE (3.2MM X 1.6MM X 1.1MM) SINGLE COLOR

OPERATING CHARACTERISTICS @ 25ºC AMBIENT															
PART NUMBER	EMITTED COLOR	MATERIAL	LENS COLOR	*LUMINOUS INTENSITY @ I_F = 20mA (mcd)			*FORWARD VOLTAGE @ I_F = 20mA (mcd)			REVERSE CURRENT (µA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)	VIEWING ANGLE (DEG)
				MIN	TYP	MAX	MIN	TYP	MAX		MIN	TYP	MAX		TYP
597-6001-602F, -607F	Red	AlInGaP	Water Clear	18.0		280.0		2.0	2.4	10		631		639	70
597-6201-602F, -607F	Orange	AlInGaP	Water Clear	71.0		450.0		2.0	2.4	10		605		611	70
597-6301-602F, -607F	Green	InGaN	Water Clear	112.0		710.0	2.8		3.8	100		525		530	70
597-6401-602F, -607F	Yellow	AlInGaP	Water Clear	28.0		450.0		2.0	2.4	10		587		588	70
597-6501-602F, -607F	Yellow -Green	AlInGaP	Water Clear	28.0		180.0	1.8		2.4	10	567		577	574	70
597-6601-602F, -607F	Blue	InGaN	Water Clear	45.0		180.0		3.0	3.8	100	465		475	468	70
597-6901-602F, -607F	White	InGaN	Yellow	28.0		112.0	2.7		3.15	10	**				70

*Luminous intensity and forward voltage for white are measured @ 5mA
**Chromaticity coordinates for white (nm): x = 0.304, y = 0.301

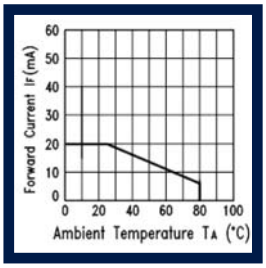
ABSOLUTE MAX RATINGS @ 25ºC AMBIENT	COLOR							UNITS
	RED	ORANGE	YELLOW	YELLOW - GREEN	GREEN	BLUE	WHITE	
Power Dissipation	75				76		70	mW
DC Forward Current	30				20			mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms PULSE)	80				100			mA
Derate Linearly from 25ºC	0.4				0.25			mA / ºC
Reverse Voltage	5							V
Storage Temperature	-55 to +85							ºC
Operating Temperature	-55 to +85							ºC
Soldering Temperature, for 5 sec	260							ºC

DERATING CURVE



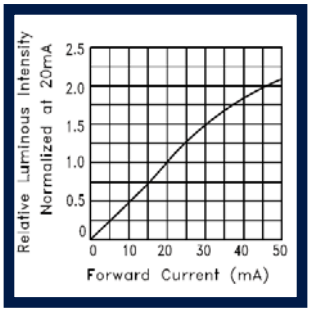
AlInGaP Red
AlInGaP Orange
AlInGaP Yellow
AlInGaP Yellow-Green

DERATING CURVE



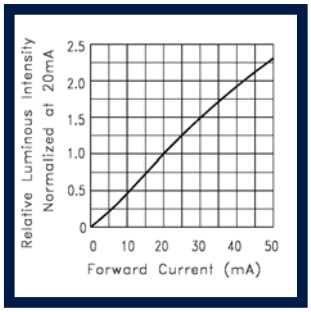
InGaN Green
InGaN Blue
InGaN White

RELATIVE INTENSITY V. FORWARD CURRENT



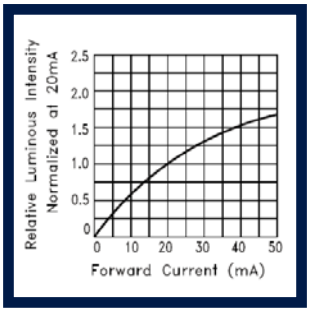
AlInGaP Red

RELATIVE INTENSITY V. FORWARD CURRENT



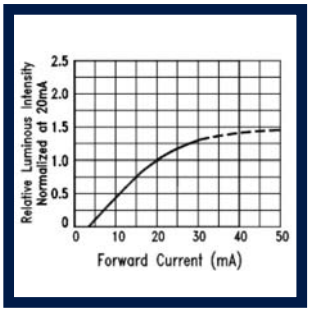
AlInGaP Orange, Yellow

RELATIVE INTENSITY V. FORWARD CURRENT



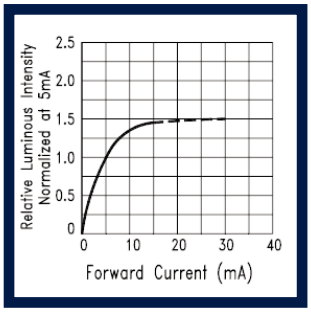
AlInGaP Yellow-Green

RELATIVE INTENSITY V. FORWARD CURRENT



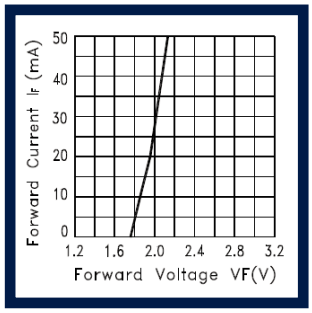
InGaN Blue, Green

RELATIVE INTENSITY V. FORWARD CURRENT



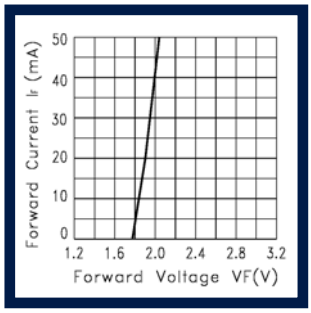
InGaN White

FORWARD CURRENT V. FORWARD VOLTAGE



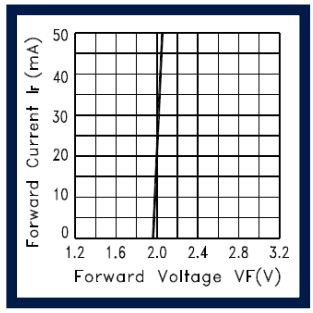
AlInGaP Red

FORWARD CURRENT V. FORWARD VOLTAGE



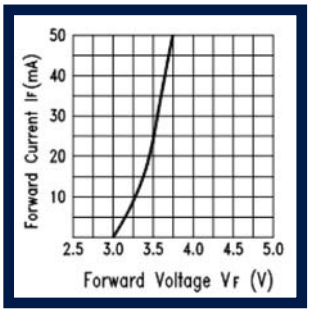
AlInGaP Orange, Yellow

FORWARD CURRENT V. FORWARD VOLTAGE



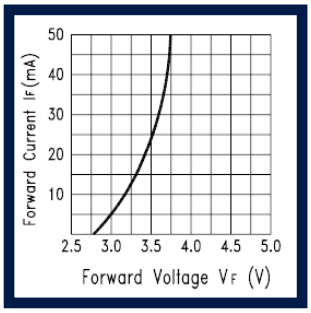
AlInGaP Yellow-Green

FORWARD CURRENT V. FORWARD VOLTAGE



InGaN Blue, Green

FORWARD CURRENT V. FORWARD VOLTAGE



InGaN White

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