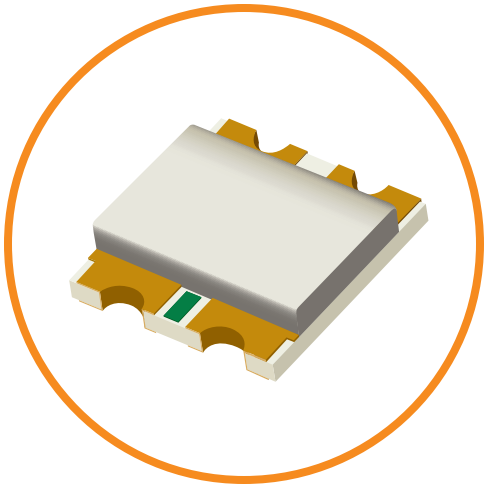
598 Series

MicroLED® SMD LED, Bi-Color 0606 Package

1.6 mm x 1.6 mm x .7 mm



Certifications & Ratings

- RoHS compliant

Features & Benefits

- Compatible with automatic placement equipment
- Packaged in 8 mm tape, 7" reel (4000 pcs/reel) and 20 per strip
- Meets EIA-481-1 pkg. std.

Part Number Guide

RoHS Compliant

5	9	8	-	8	4	X	X	-	2	0	X	C	F

Color

Red / Green	1	0
Orange / Green	3	0
Yellow / Yellow-Green	4	0
Yellow / Green	5	0
Yellow / Red	6	0

Packaging Option

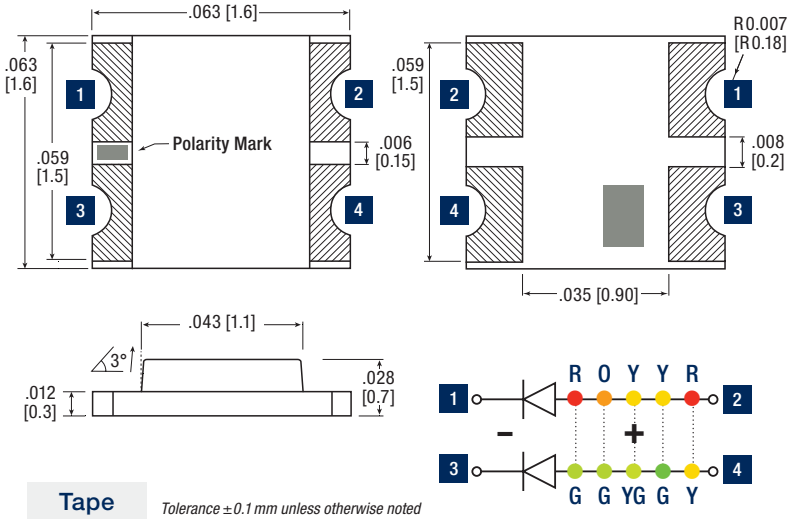
2	20 pieces on tape
7	7" reel 4000 pcs/reel

Dimensions

inches [mm]

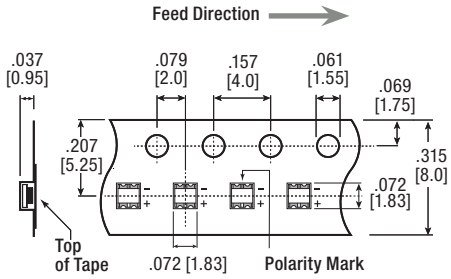
Tolerance ±0.2 mm unless otherwise noted

Package



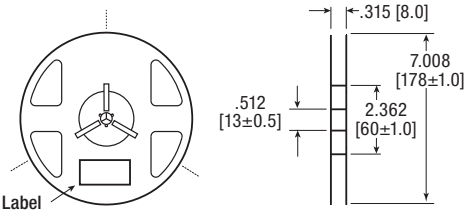
Tape

Tolerance ±0.1 mm unless otherwise noted

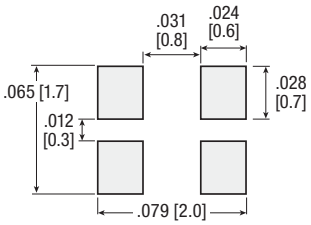


Reel

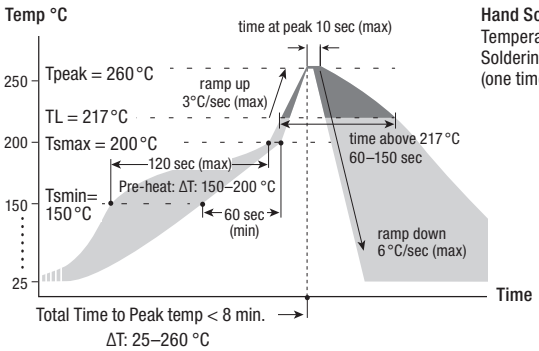
Tolerance ±0.1 mm unless otherwise noted



Soldering



Reflow Profile



Hand Soldering
Temperature: 300° C max.
Soldering time: 3 sec max.
(one time only)

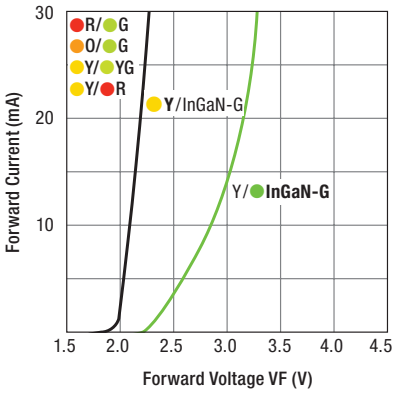
RoHS COMPLIANT

Dialight

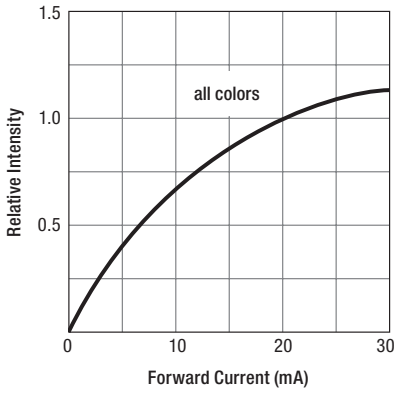
Electrical/Optical Characteristics

Dialight P/N		Emitted Color	Material	Lens Color	Luminous Intensity			Dominant Wavelength			Forward Voltage			Viewing Angle (°deg.)	Thermal Resistance (°C/W)	Reverse Current Intensity (µA)
					If = 20 ma											
20-Piece Tape	7" Reel, 4000 pcs				Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		Rth(j-s) If=20 ma	(Ir) VR=5V
598-8410-202CF	598-8410-207CF	Red	AlInGaP	Non-Diffused	43	65	100	625	633	640	1.8	2.1	2.4	140	450	10
		Green			28	54	80	565	570	575	1.8	2.1	2.4			
598-8430-202CF	598-8430-207CF	Orange			70	135	200	600	605	610	1.8	2.1	2.4			
		Green			18	59	100	565	570	575	1.8	2.1	2.4			
598-8440-202CF	598-8440-207CF	Yellow			70	135	200	585	590	595	1.8	2.1	2.4			
		Yellow-Green			18	59	100	565	570	575	1.8	2.1	2.4			
598-8450-202CF	598-8450-207CF	Yellow			70	135	200	585	590	595	1.8	2.1	2.4			
		Green	InGaN		260	580	900	515	523	530	2.7	3.0	3.4			
598-8460-202CF	598-8460-207CF	Yellow	AlInGaP		90	145	200	585	590	595	1.8	2.1	2.4			
		Red			30	60	90	625	633	640	1.8	2.1	2.4			

Forward Current vs. Forward Voltage (Ta=25 °C)



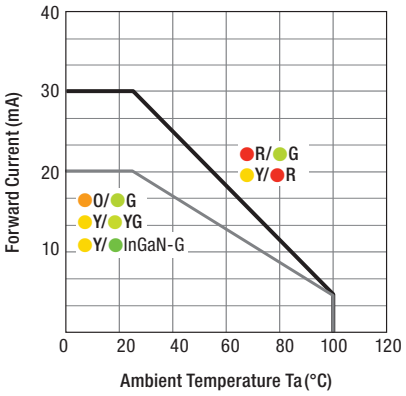
Relative Intensity vs. Forward Current (Ta=25 °C)



Absolute Maximum Ratings @ Ts=25 °C

Power Dissipation (mW)	R	Y	72	O	Y	48	Y	48
	G	R	72	G	YG	48	G	68
Forward Current (mA)	R, Y, G, R		30	all others 20				
Reverse Voltage (V)	5							
Operating Temp (°C)	-40 to +100							
Storage Temp (°C)	-40 to +100							
Peak Pulse Fw Current (mA)	60							
Electrostatic Discharge (HBM) (V)	R, Y, G, R		2000	all others 1000				
Junction Temp (°C)	105							

Maximum Forward Current vs. Ambient Temperature



Relative Intensity vs. Ambient Temperature

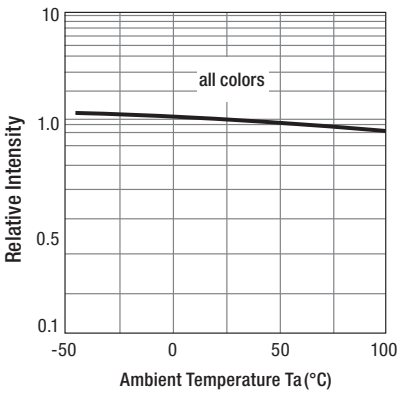
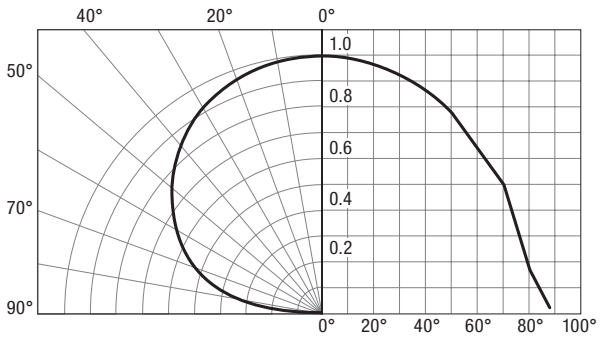


Diagram Characteristics of Radiation



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