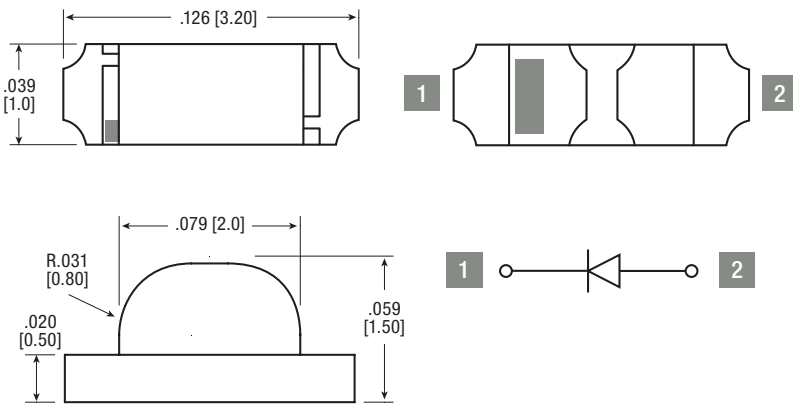


Dimensions

inches [mm]



Package

Certifications & Ratings

- RoHS compliant

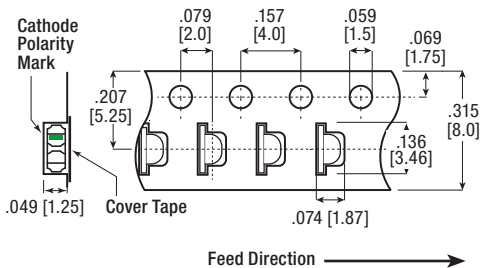
Features & Benefits

- Compatible with automatic placement equipment
- Packaged in 8 mm tape, 7" reel (3000 pcs/reel) and 20 per strip
- Meets EIA-481-1 pkg. std.
- Moisture Sensitivity Level (MSL): 3

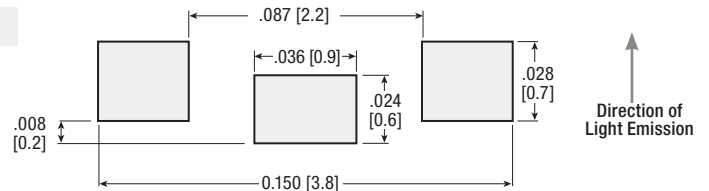
Part Number Guide

		RoHS Compliant	
		1	X
5	9	8	-
8	3	X	X
		-	1
		1	X
			F
Color		Packaging Option	
Red	1	0	2 20 pieces on tape
Red-Orange	2	0	7 7" reel 3000 pcs/reel
Orange	3	0	
Yellow	4	0	
Yellow	5	0	
Yellow-Green	6	0	
Green	7	0	
Green	8	0	
Blue	9	1	

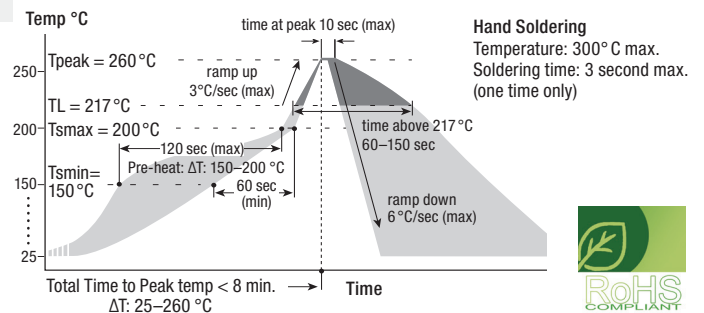
Tape and Reel



Soldering



Reflow



Electrical/Optical Characteristics

Dialight P/N		Emitted Color	Material	Lens Color	Luminous Intensity			Dominant Wavelength			Forward Voltage			Viewing Angle (°deg.)	Thermal Resistance (°C/W) Rth(j-s) lf=20 ma	Reverse Current Intensity (µA) (Ir) VR=5V
20-Piece Tape	7" Reel, 3000 pcs				If = 20 ma											
					Min	Typ	Max	Min	Typ	Max	Min	Typ	Max			
598-8310-112F	598-8310-117F	● Red	AlInGaP	Non Diffused	40		90	625	635	640	1.8	2.1	2.4	140	450	10
598-8320-112F	598-8320-117F	● Red-Orange			120	150	200	620	625	630	1.8	2.1	2.4			
598-8330-112F	598-8330-117F	● Orange			70	110	150	600	-	610	1.8	2.1	2.4			
598-8340-112F	598-8340-117F	● Yellow			90	140	200	590	-	595	1.8	2.1	2.4			
598-8350-112F	598-8350-117F	● Yellow			90	140	200	585	-	590	1.8	2.1	2.4			
598-8360-112F	598-8360-117F	● Yellow-Green			43	65	80	570	-	575	1.8	2.1	2.4			
598-8370-112F	598-8370-117F	● Green			18	28	43	563	-	570	1.8	2.1	2.4			
598-8380-112F	598-8380-117F	● Green	InGaN		260	480	900	515	520	525	2.8	3.1	3.4			
598-8391-112F	598-8391-117F	● Blue			90	170	260	465	470	475	2.8	3.2	3.5			

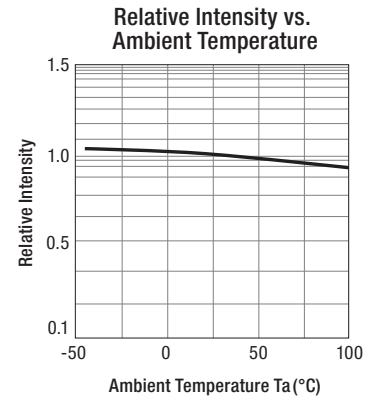
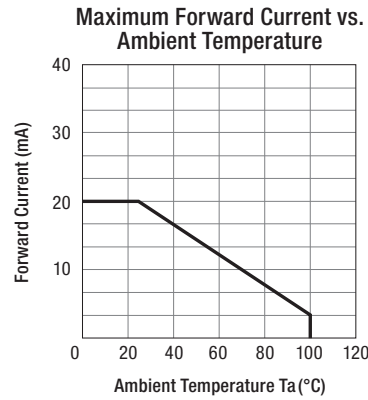
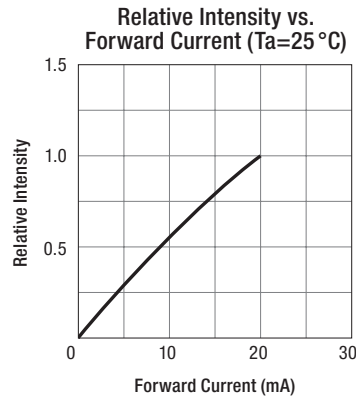
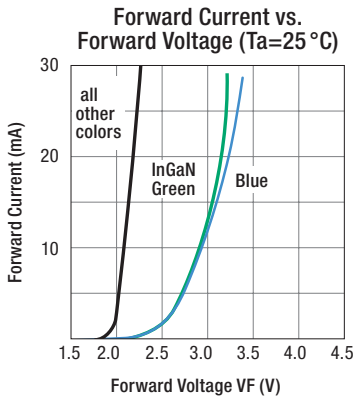
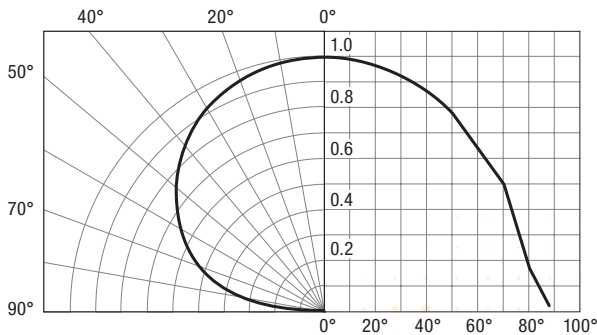


Diagram Characteristics of Radiation



Absolute Maximum Ratings @ Ts=25°C

Power Dissipation (mW)	48	50	68	70
	● R, ● RO, ● O, ● YG, ● G	● Y, ● Y	● G	● B
Forward Current (mA)	20			
Reverse Voltage (V)	5			
Operating Temp (°C)	-40~+100			
Storage Temp (°C)	-40~+100			
Peak Pulse Fw Current (mA)	60	100		
	● B	all other colors		
Electrostatic Discharge (HBM) (V)	1000	2000		
	● G, ● B	all other colors		
Junction Temp (°C)	105			

Dialight reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.dialightsignalsandcomponents.com

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