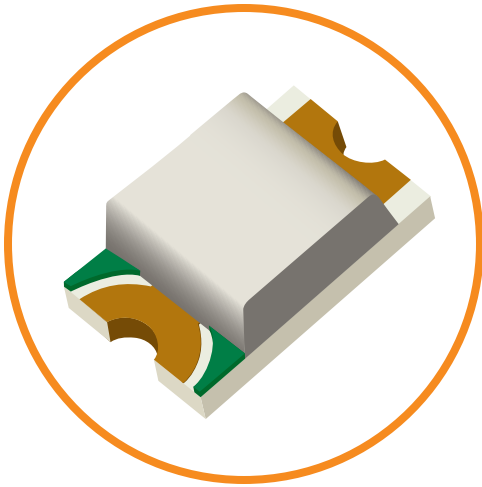




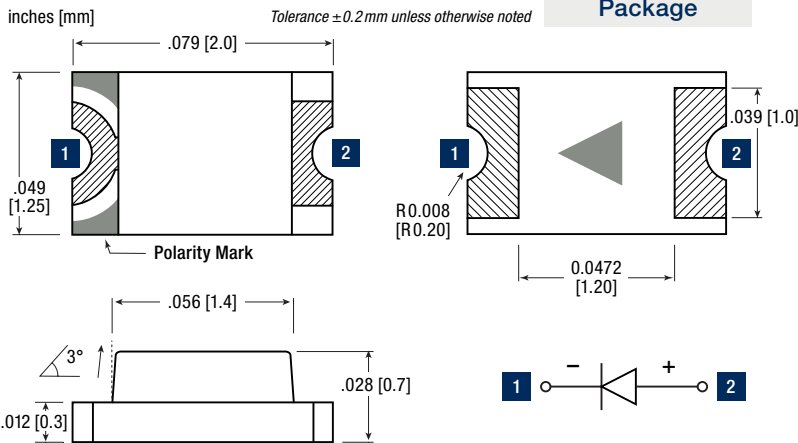
Certifications & Ratings

- 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.

Dimensions

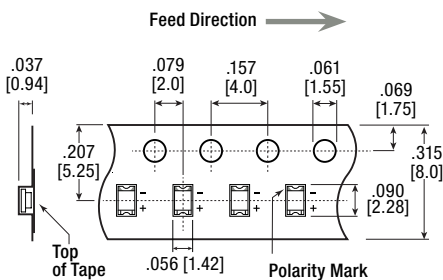


Part Number Guide

Full Number Guide										RoHS Compliant		
5	9	8	-	8	1	X	X	-	1	0	X	F
Color								Packaging Option				
 Red	1		0		7 7" reel 4000 pcs/reel							
 Red-Orange	2		0									
 Orange	3		0									
 Yellow	4		0									
 Yellow	5		0									
 Yellow-Green	6		0									
 Green	7		0									
 Green	8		1									
 Blue	9		1									

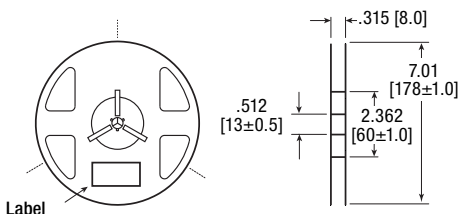
Tape

Tolerance ± 0.1 mm unless otherwise noted

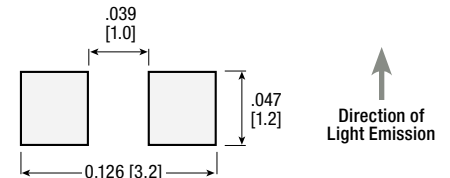


Reel

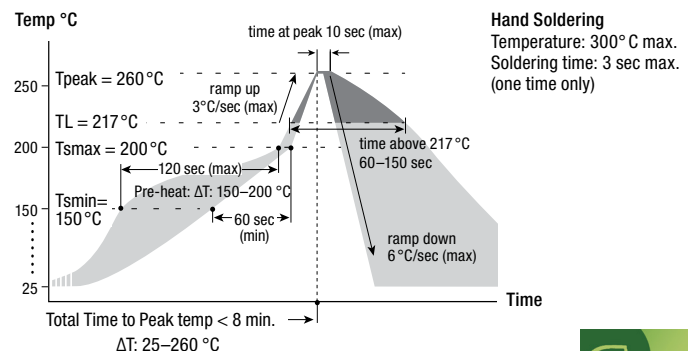
Tolerance ± 0.1 mm unless otherwise noted



Soldering

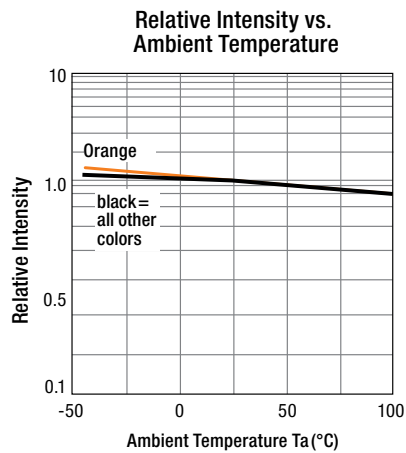
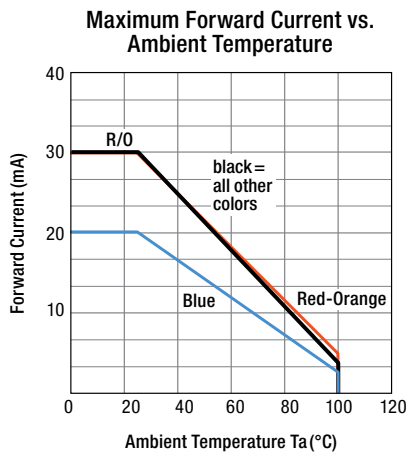
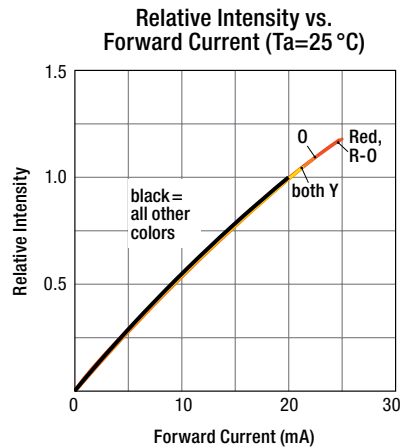
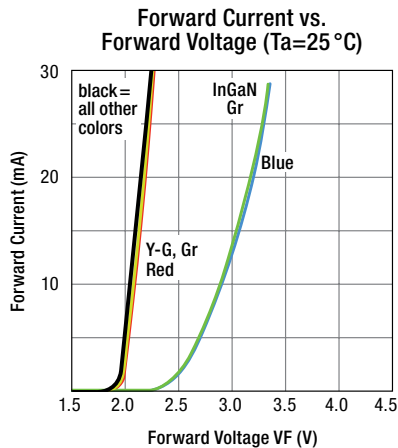


Reflow Profile



Electrical/Optical Characteristics

Electrical/Optical Characteristics				Luminous Intensity			Dominant Wavelength			Forward Voltage			Viewing Angle (°deg.)	Thermal Resistance (°C/W)	Reverse Current Intensity (μA)
Dialight P/N	Emitted Color	Material	Lens Color	If = 20 ma										Rth(j-s) If=20ma	(Ir)VR=5 V
7" Reel, 4000 pcs				Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		Min	Typ
598-8110-107F	● Red	AlInGaP	Non-Diffused	20	55	90	625	633	640	1.8	2.1	2.4	140	450	10
598-8120-107F	● Red-Orange			120	190	260	620	625	630	1.8	2.1	2.4			
598-8130-107F	● Orange			70	165	260	600	605	610	1.8	2.1	2.4			
598-8140-107F	● Yellow			150	205	260	590	592	595	1.8	2.1	2.4			
598-8150-107F	● Yellow			90	120	150	585	587	590	1.8	2.1	2.4			
598-8160-107F	● Yellow-Green			43	62	80	570	572	575	1.8	2.1	2.4			
598-8170-107F	● Green			12	28	43	562	566	570	1.8	2.1	2.4			
598-8181-107F	● Green	InGaN		260	580	900	520	525	530	2.8	3.2	3.5			
598-8191-107F	● Blue			90	145	200	465	470	475	2.8	3.2	3.5			



Absolute Maximum Ratings @ Ts=25 °C

Power Dissipation (mW)	72	105 ● G - InGaN
Forward Current (mA)	30	20 ● B
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)	2000	1000 ● G - InGaN ● B
Junction Temp (°C)	105	

Diagram Characteristics of Radiation

