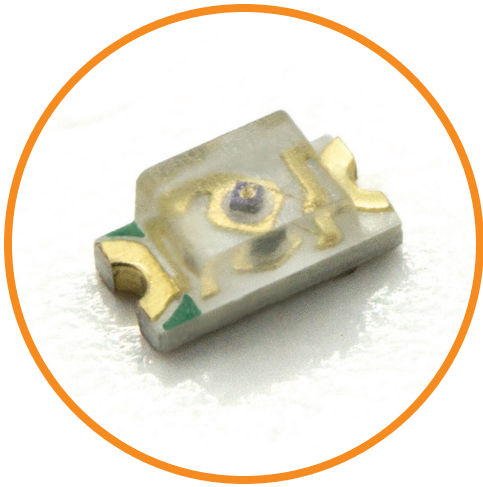


1.6 mm x 0.8 mm x 0.7 mm



Certifications & Ratings

- RoHS compliant

Features & Benefits

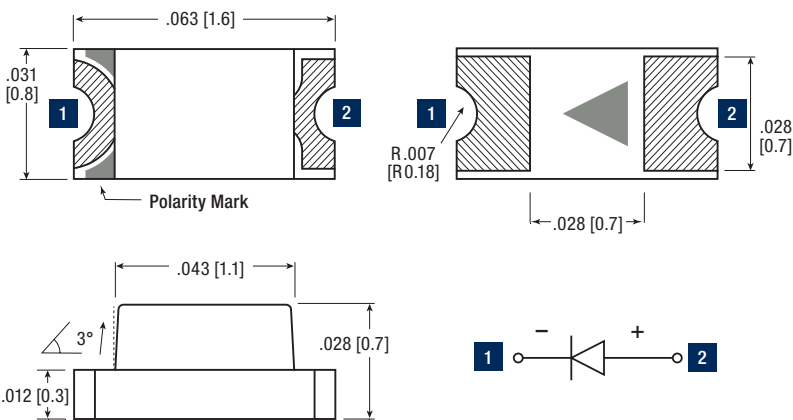
- Compatible with automatic placement equipment
- Packaged in 8 mm tape, 7" reel (4000 pcs/reel) and 20 per strip
- Meets EIA-481-1 pkg. std.

Dimensions

inches [mm]

Tolerance ± 0.2 mm unless otherwise noted

Package

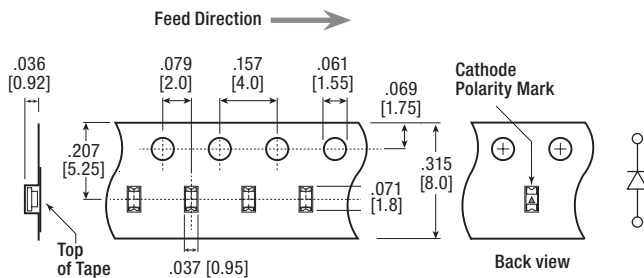


Part Number Guide

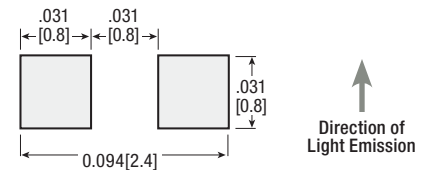
RoHS Compliant									
5 9 9 - 0 0 X X - 0 0 X F									
Color						Packaging Option			
● Red	1	0				2	20 piece tape		
● Red-Orange	2	0				7	7" reel 4000 pcs/reel		
● Orange	3	0							
● Yellow	4	0							
● Yellow-Green	6	0							
● Green	8	1							
● Blue	9	1							

Tape

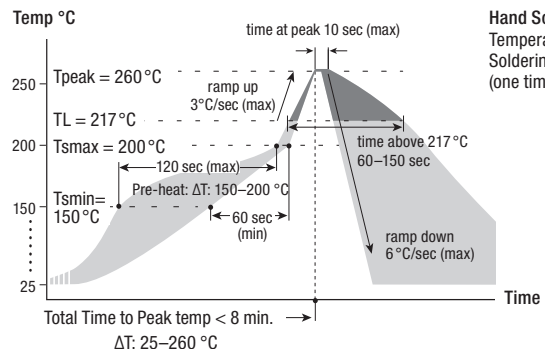
Tolerance ± 0.1 mm unless otherwise noted



Soldering



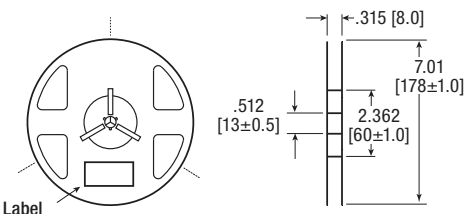
Reflow Profile



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

Reel

Tolerance ± 0.1 mm unless otherwise noted

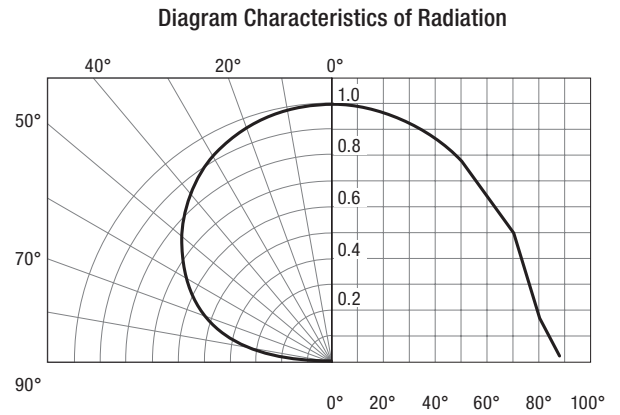
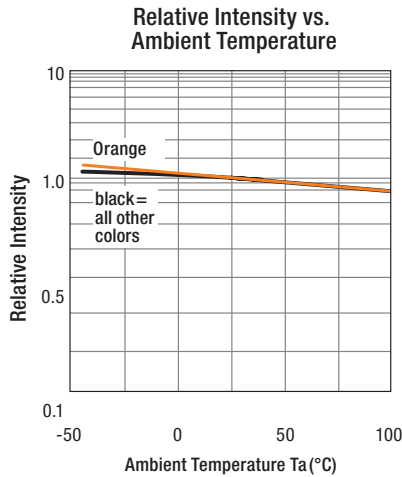
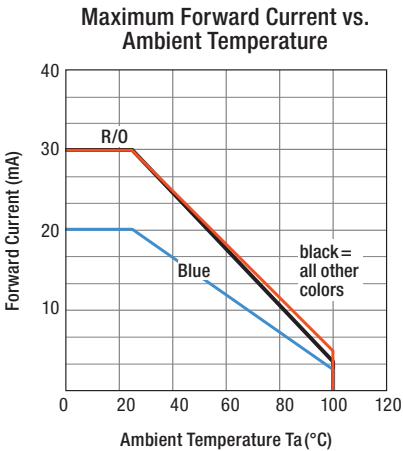
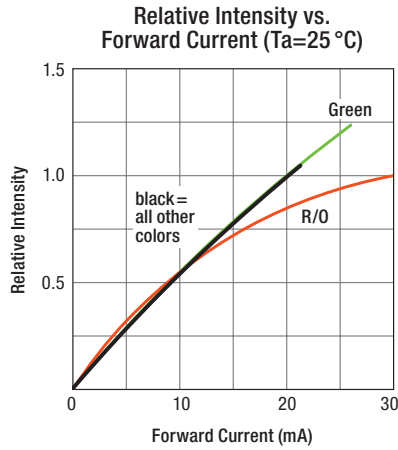
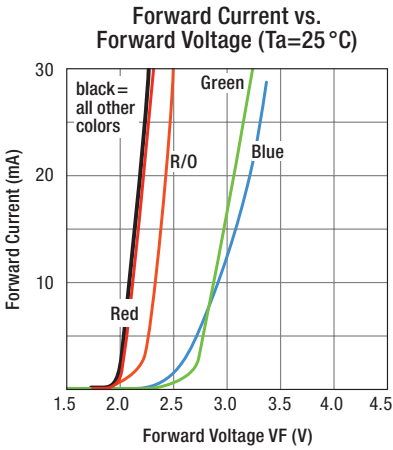


Electrical/Optical Characteristics

Dialight P/N		Emitted Color	Material	Lens Color	Luminous Intensity			Dominant Wavelength			Forward Voltage			Viewing Angle (°deg.)	Thermal Resistance (°C/W) R _{th(j-s)} I _f =20 ma	Reverse Current Intensity (μA) (I _r) VR=5V
20-Piece Tape	7" Reel, 4000 pcs				I _f = 20 ma											
					Min	Typ	Max	Min	Typ	Max	Min	Typ	Max			
599-0010-002F	599-0010-007F	● Red	AlInGaP	Non Diffused	23	45	-	625	633	640	-	2.1	2.5	140	450	10
599-0020-002F	599-0020-007F	● Red-Orange			90	169	-	620	625	630	-	2.1	2.5			
599-0030-002F	599-0030-007F	● Orange			53	90	-	600	605	610	-	2.1	2.5			
599-0040-002F	599-0040-007F	● Yellow			68	105	-	585	590	595	-	2.1	2.5			
599-0060-002F	599-0060-007F	● Yellow-Green			9	43	-	562	569	575	-	2.1	2.5			
599-0081-002F	599-0081-007F	● Green	InGaN		195	340	-	517	525	530	-	3.1	3.5			
599-0091-002F	599-0091-007F	● Blue			70	150	260	465	470	475	2.8	3.2	3.5			

Absolute Maximum Ratings @ Ts=25°C

Power Dissipation (mW)	72	102 ● G - InGaN
		70 ● B
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	



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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