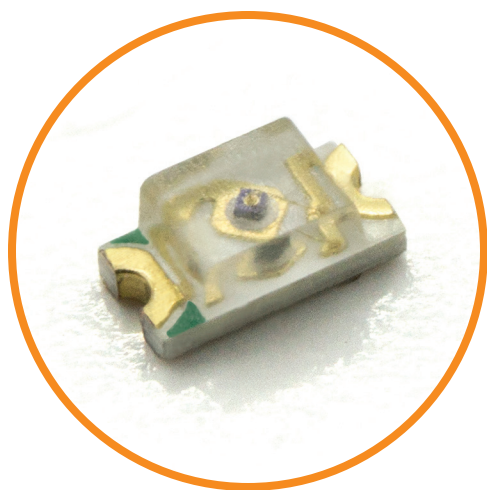


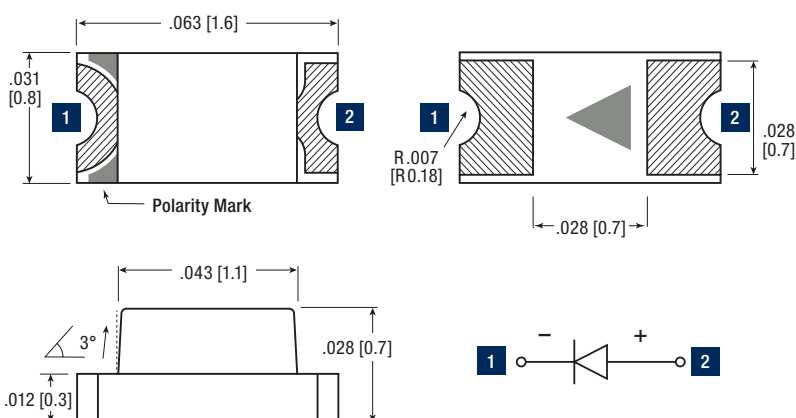


Dimensions

inches [mm]

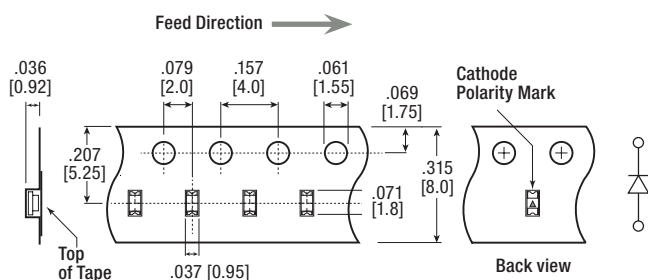
Tolerance ± 0.2 mm unless otherwise noted

Package



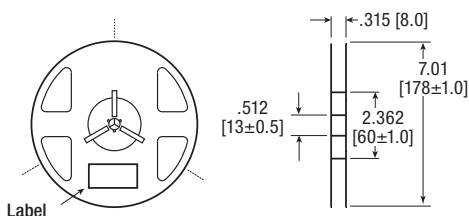
Tape

Tolerance ± 0.1 mm unless otherwise noted



Reel

Tolerance ± 0.1 mm unless otherwise noted



Certifications & Ratings

- RoHS compliant

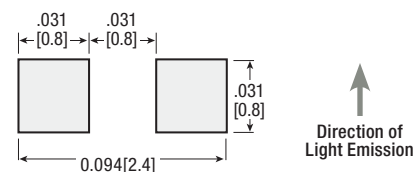
Features & Benefits

- 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.

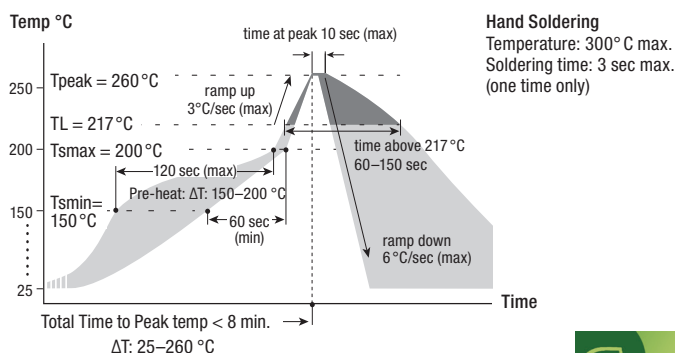
Part Number Guide

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		7" reel 4000 pcs/reel				
● Red-Orange	2	0									
● Orange	3	0	7								
● Yellow	4	0									
● Yellow-Green	6	0									
● Green	8	1									
● Blue	9	1									

Soldering



Reflow Profile

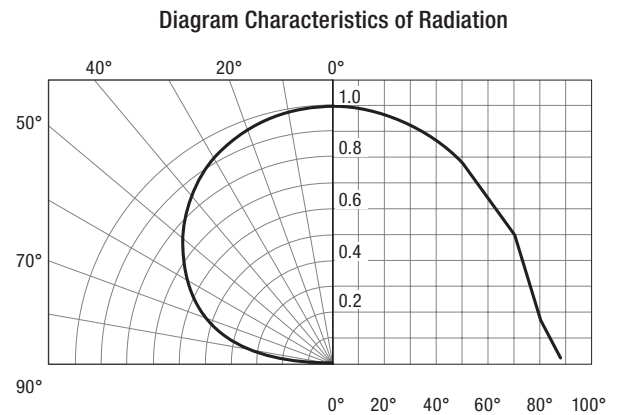
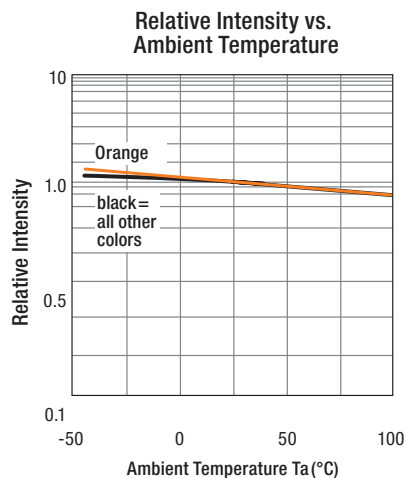
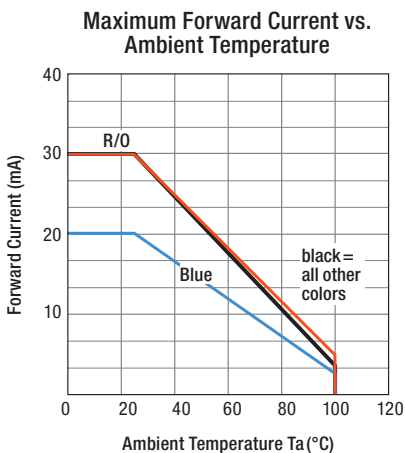
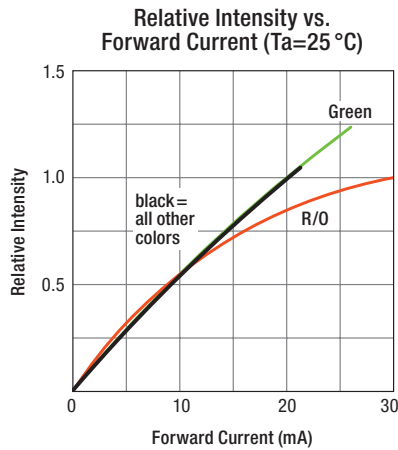
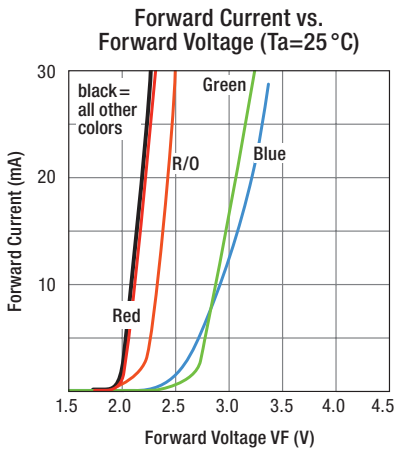


Electrical/Optical Characteristics

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)} If=20 ma	Reverse Current Intensity (μA) (Ir) VR=5 V
20-Piece Tape	7" Reel, 4000 pcs				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	Non Diffused	195	340	-	517	525	530	-	3.1	3.5	140	450	10
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
Forward Current (mA)	30	70 ● 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	



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dialight:

[599-0060-007F](#) [599-0081-007F](#) [599-0030-007F](#) [599-0010-007F](#) [599-0040-007F](#) [599-0020-007F](#) [599-0091-007F](#)
[5990081002F](#)