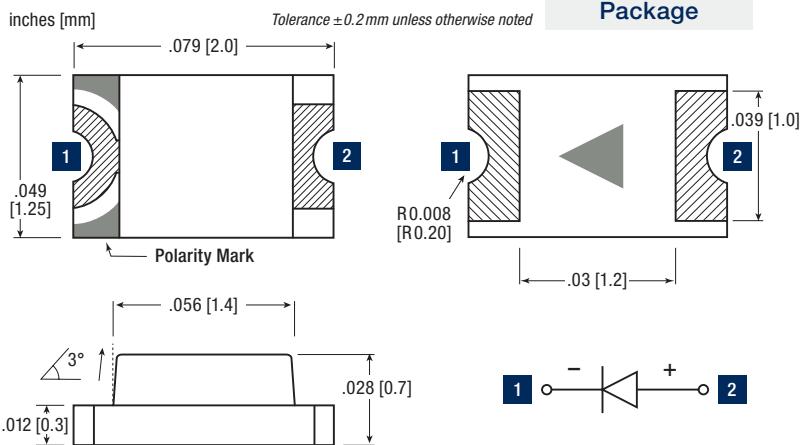


2.0mm x 1.25mm x 0.7mm



Dimensions



Certifications & Ratings

- RoHS compliant

Features & Benefits

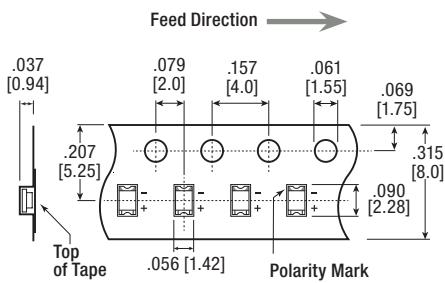
- Compatible with automatic placement equipment
- Packaged in 8mm tape, 7" reel (4000 pcs/reel) and 20 per strip
- Meets EIA-481-1 pkg. std.

Part Number Guide

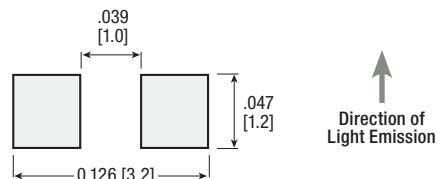
5 9 9 - 0 1 X X - 0 0 X F		RoHS Compliant
Color	Packaging Option	
● Red	1 0	2 20 piece tape
● Red-Orange	2 0	7 7" reel
● Orange	3 0	4000 pcs/reel
● Yellow	4 0	
● Yellow-Green	6 0	
● Green	8 1	
● Blue	9 1	

Tape

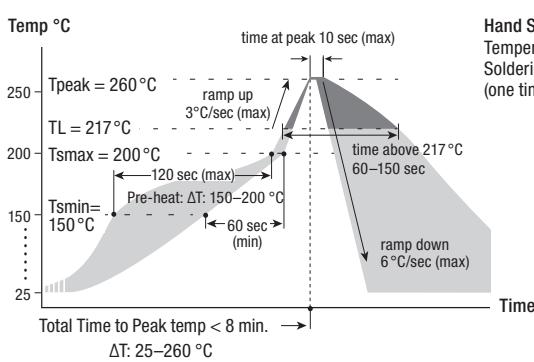
Tolerance ± 0.1 mm unless otherwise noted



Soldering



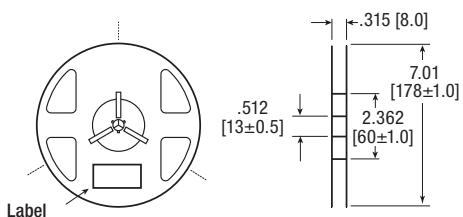
Reflow Profile



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

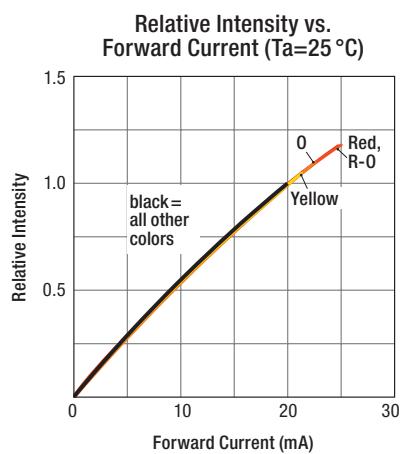
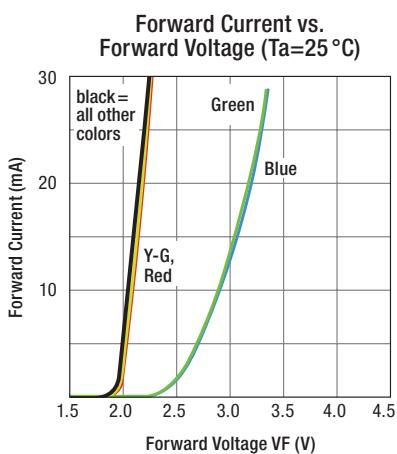
Reel

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)	Reverse Current Intensity (µA)	
20-Piece Tape	7" Reel, 4000 pcs				Min	Typ	Min	Typ	Max	Typ	Max				
599-0110-002F	599-0110-007F	● Red	AllInGaP	Non Diffused	15	29	625	633	640	2.1	2.5	140	450	10	
599-0120-002F	599-0120-007F	● Red-Orange			90	138	620	625	630	2.1	2.5				
599-0130-002F	599-0130-007F	● Orange			53	95	600	605	610	2.1	2.5				
599-0140-002F	599-0140-007F	● Yellow			68	112	585	590	595	2.1	2.5				
599-0160-002F	599-0160-007F	● Yellow-Green			9	43	562	569	575	2.1	2.5				
599-0181-002F	599-0181-007F	● Green	InGaN		195	340	520	525	530	3.2	3.6				
599-0191-002F	599-0191-007F	● Blue			68	105	465	470	475	3.2	3.6				



Absolute Maximum Ratings @ $T_s=25^\circ\text{C}$

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	

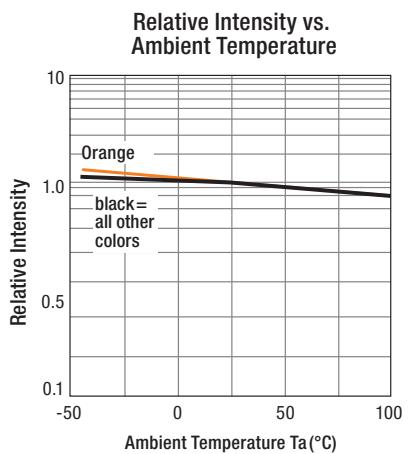
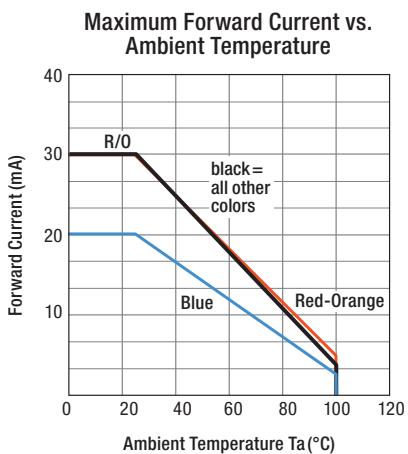
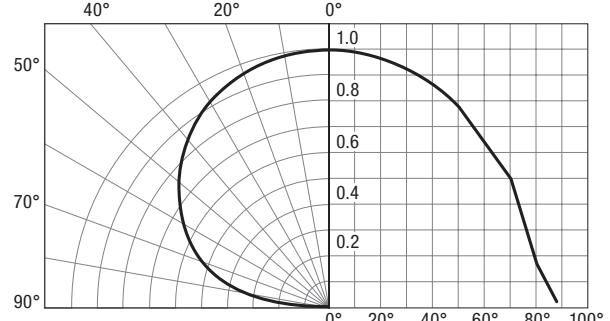


Diagram Characteristics of Radiation



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