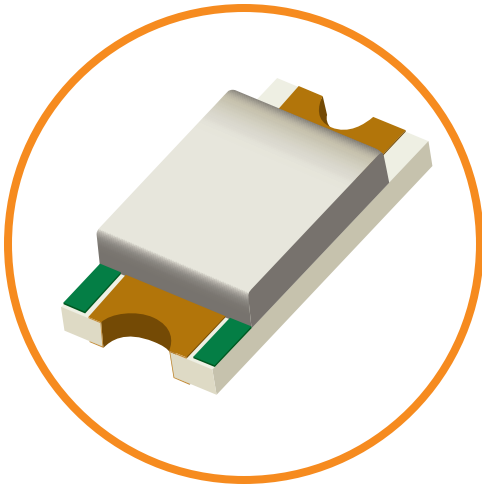




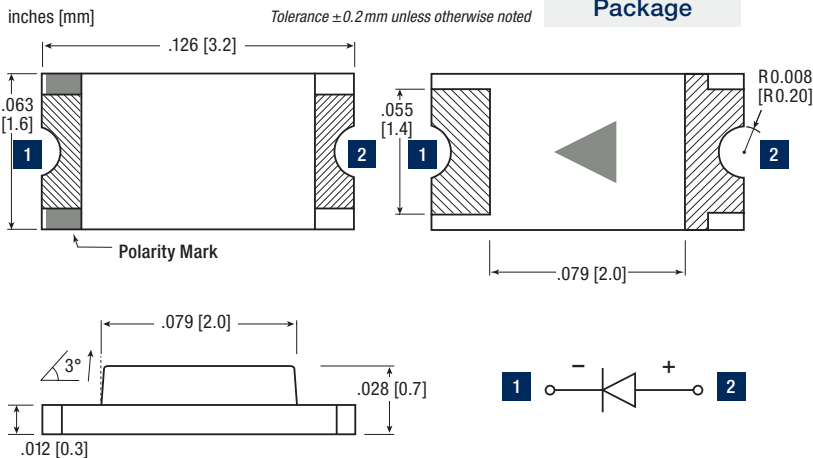
Certifications & Ratings

- RoHS compliant

Features & Benefits

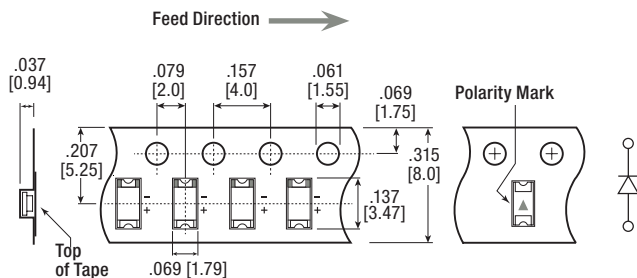
- Compatible with automatic placement equipment
- Packaged in 8 mm tape, 7" reel (4000 pcs/reel) and 20 per strip
- Meets EIA-481-1 pkg. std.

Dimensions



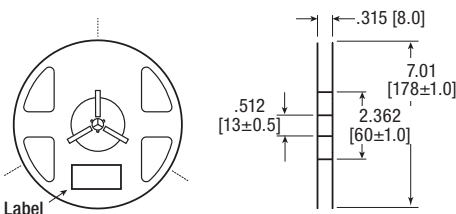
Tape

Tolerance ± 0.1 mm unless otherwise noted



Reel

Tolerance ± 0.1 mm unless otherwise noted



Part Number Guide

5

9

8

-

8

2

X

X

-

1

0

X

F

Color

Red

1

0

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

2

20 pieces on tape

7

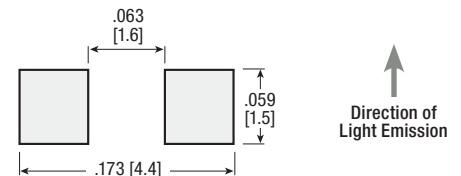
7" reel

4000 pcs/reel

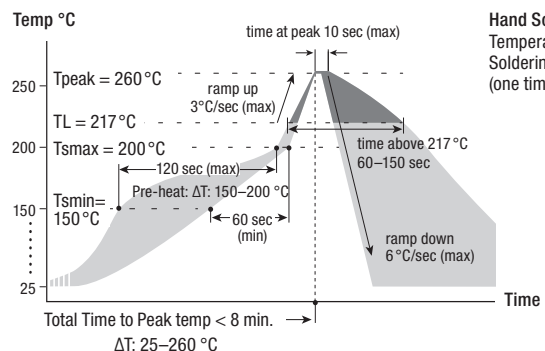
Packaging Option

RoHS Compliant

Soldering



Reflow Profile

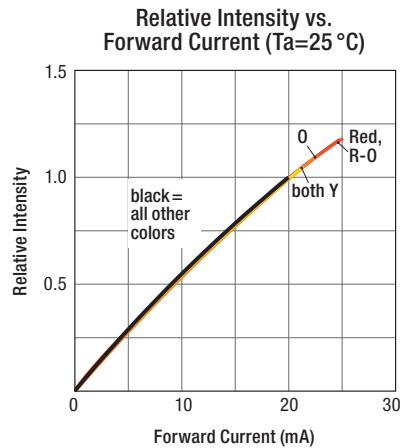
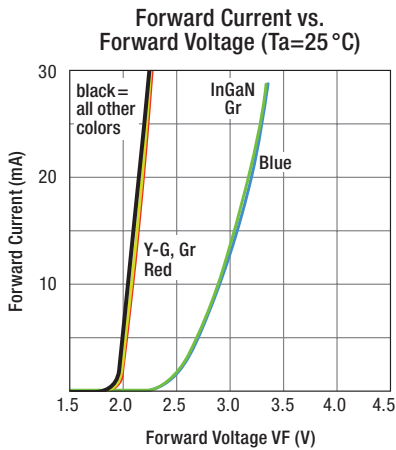


Hand Soldering
Temperature: 300°C max.
Soldering time: 3 sec max.
(one time only)



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=5 V
20-Piece Tape	7" Reel, 4000 pcs				Min	Typ	Max	Min	Typ	Max	Min	Typ	Max			
598-8210-102F	598-8210-107F	Red	AlInGaP	Non-Diffused	20	55	90	625	633	640	1.8	2.1	2.4	140	450	10
598-8220-102F	598-8220-107F	Red-Orange			70	120	200	620	625	630	1.8	2.1	2.4			
598-8230-102F	598-8230-107F	Orange			90	175	260	600	605	610	1.8	2.1	2.4			
598-8240-102F	598-8240-107F	Yellow			150	205	260	590	592	595	1.8	2.1	2.4			
598-8250-102F	598-8250-107F	Yellow			90	120	150	585	587	590	1.8	2.1	2.4			
598-8260-102F	598-8260-107F	Yellow-Green			43	70	100	570	572	575	1.8	2.1	2.4			
598-8270-102F	598-8270-107F	Green	InGaN	Non-Diffused	18	30	43	562	566	570	1.8	2.1	2.4	140	450	10
598-8281-102F	598-8281-107F	Green			260	580	900	517	525	530	2.8	3.2	3.5			
598-8291-102F	598-8291-107F	Blue			90	175	260	465	470	475	2.8	3.2	3.5			



Absolute Maximum Ratings @ Ts=25 °C

Power Dissipation (mW)	72	105	● G - InGaN ● B
Forward Current (mA)	30		
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		

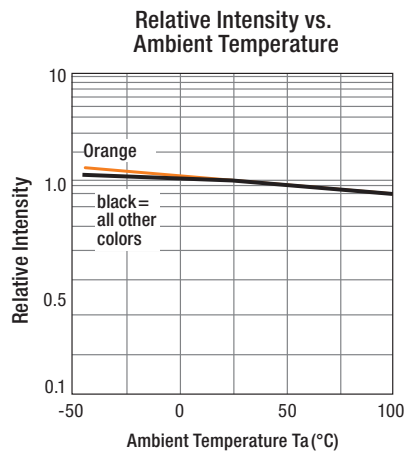
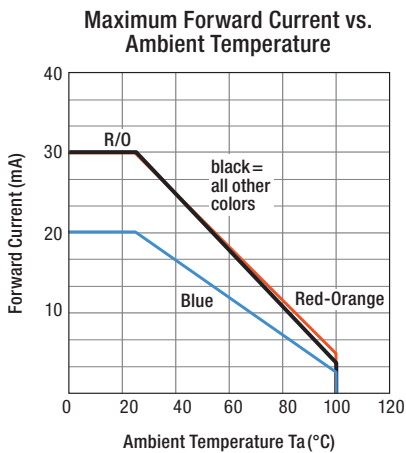


Diagram Characteristics of Radiation

