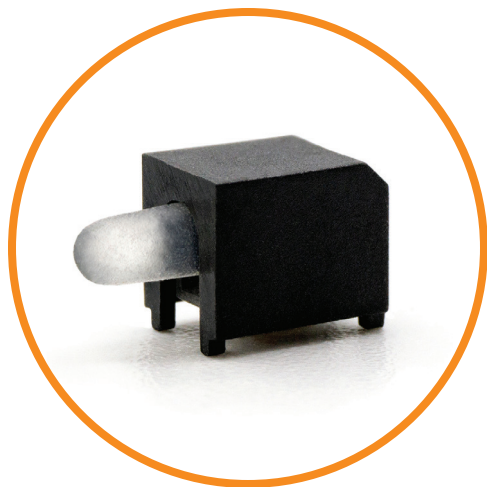




Certifications & Ratings

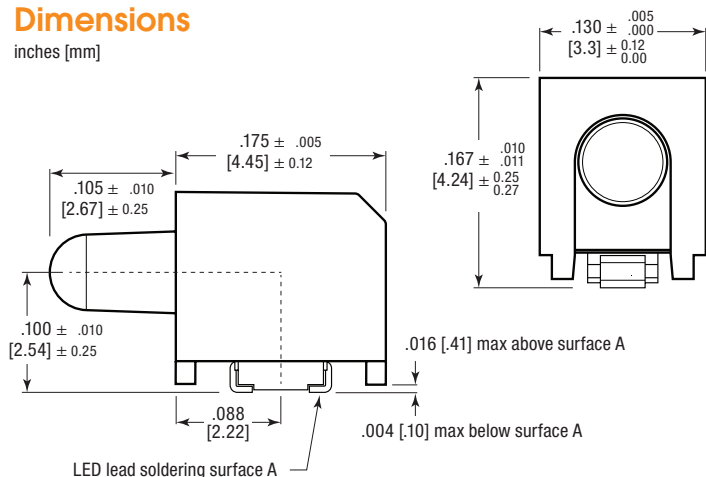
- RoHS and REACH compliant

Features & Benefits

- Compatible with automatic placement equipment.
- Packaged in 16mm tape, 7" reel (400 pcs/reel) and 13" reel (1600 pcs/reel).
- Compatible with surface mount reflow soldering processes.
- Housing material meets UL-94V-0 flammability ratings.
- Design provides increased indication without increased space.
- Packaged in moisture barrier bags for dry packaging per IPC/JEDEC J-STD-033.
- Helps eliminate mixed technology PC board processing.
- MSL2 for 2mA, MSL3 for 20mA

Dimensions

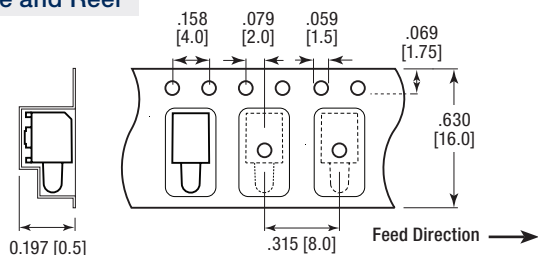
inches [mm]



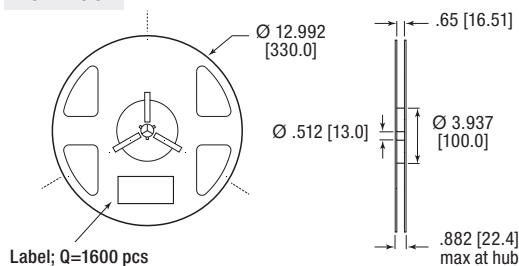
Part Number Guide

5	9	4	-	2	X	X	X	-	0	X	X	F
Color					Current		Packaging Option					
Red	0	0		1	20mA	0	7	7" reel / 400 pcs				
Orange	5	0		1		1	3	13" reel / 1600 pcs				
Yellow	4	0		1								
Yellow-Green	3	0		1								
Green	9	0		1								
Red	0	0		4	2mA							
Orange	5	0		4								
Yellow	4	0		4								
Blue	6	0		1	20mA							
White	8	0		1	20mA							

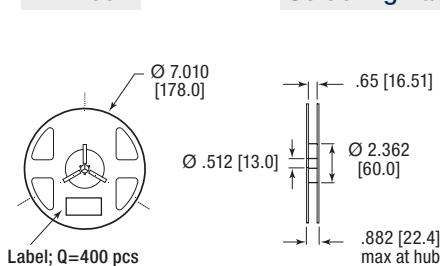
Tape and Reel



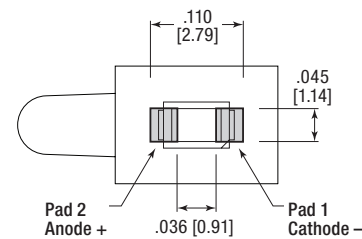
13" Reel



7" Reel



Soldering Pad Layout



Reflow profiles shown on reverse >



Electrical/Optical Characteristics

Electrical/Optical Characteristics				Luminous Intensity (mcd)	Dominant Wavelength (nm)		Forward Voltage (V)		Viewing Angle (°deg.)	Reverse Current Intensity (μA)	
		Emitted Color	Material	If = 2.0mA							
7" Reel, 400 pcs	13" Reel, 1600 pcs			Typ	Min	Typ	Max	Typ			Max
594-2001-007F	594-2001-013F	● Red	AlInGaP	54	—	625	—	1.8	2.4	120	10
594-2501-007F	594-2501-013F	● Orange		38	—	605	—	1.8	2.4		
594-2401-007F	594-2401-013F	● Yellow		48	—	590	—	1.8	2.4		
594-2301-007F	594-2301-013F	● Yellow-Green		9	—	570	—	1.8	2.4		
594-2901-007F	594-2901-013F	● Green	InGaN	312	—	525	—	2.8	3.5		

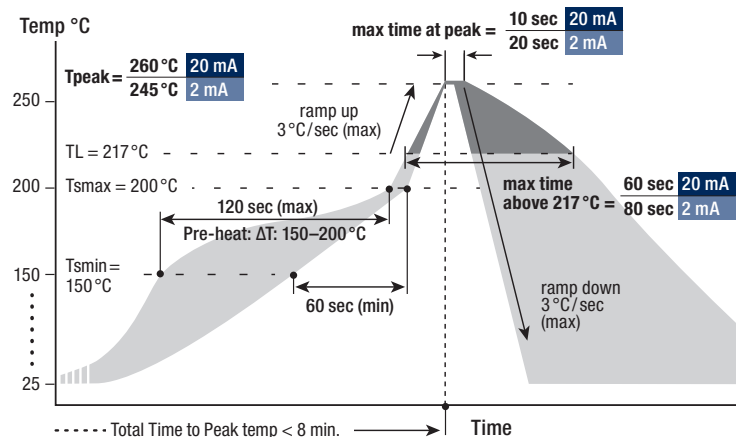
		Emitted Color	Material	If = 2 mA						Viewing Angle (°deg.)	Reverse Current Intensity (μA)
				Typ	Min	Typ	Max	Typ	Max		
594-2004-007F	594-2004-013F	Red	AlInGaP	2	624	630	635	1.7	2.2	120	10
594-2404-007F	594-2404-013F	Orange		3	600	606	609	1.7	2.2		
594-2504-007F	594-2504-013F	Yellow		2.2	580	587	595	1.7	2.2		
		Emitted Color	Material	If = 10 mA						Viewing Angle (°deg.)	Reverse Current Intensity (μA)
				Typ	Min	Typ	Max	Typ	Max		
594-2601-007F	594-2601-013F	Blue	InGaN	50	465	470	475	2.5	3.1	120	10
594-2801-007NF	594-2801-013NF	White		100	x=0.297 y=0.292			2.8	3.3		

Absolute Maximum Ratings

@ Ts = 25 °C

@ Ts= 25 °C	If = 20 mA		If = 2 mA	
Power Dissipation (mW)	●R, ●Y, ●YG	48	—	
	●O	60		
	○W	62		
	●G, ●B	70		
Forward Current (mA)	all	20	●R, ●O, ●Y	20
Peak Pulse Fwd Current (mA)	●R, ●Y, ●YG, ●G, ●B, ○W	100	●R, ●O, ●Y	100
	●O	80		
Reverse Voltage (V)	all	5	●R, ●O, ●Y	12
Operating Temp (°C)	-40°C to +85°C		-40°C to +100°C	
Storage Temp (°C)	-40°C to +100°C			
Electrostatic Discharge (V)	2000			

Reflow Profile



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