



591 SERIES PRISM® Surface Mount LED

3mm Square Lens

APPLICATIONS

Data center infrastructure
Telecommunication
Electronic test and measurement instruments
Automation
Medical
Wireless infrastructure

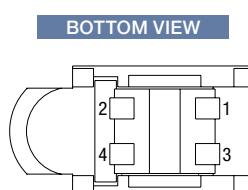
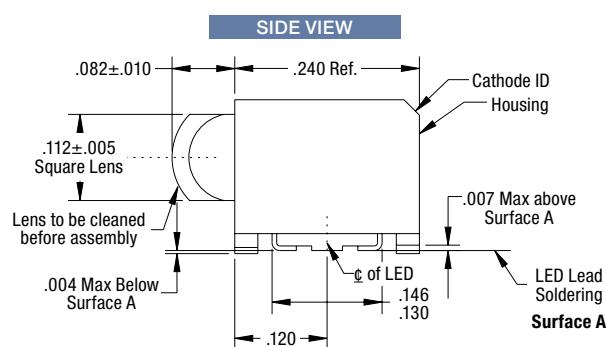
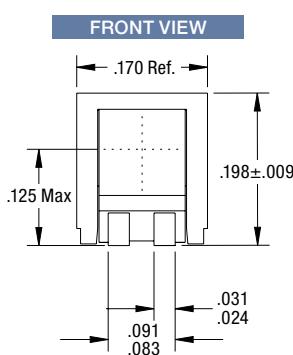
CERTIFICATIONS & RATINGS

RoHS compliant

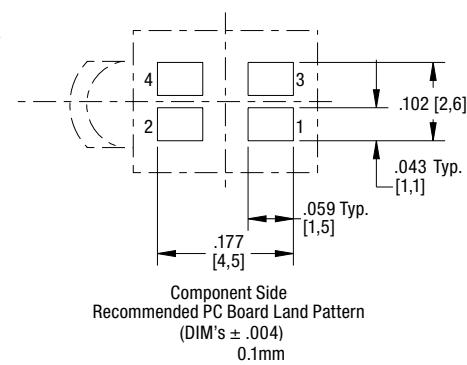
FEATURES & BENEFITS

- SMT LED Technology designed to survive 260°C peak reflow temperature
- Eliminates wave soldering process
- Black, low profile PPA housing enhances the contrast ratio for better clarity
- Compatible with automatic pick-and-place equipment for reduced installation costs
- Ideal for limited space applications and board edge mounting

DIMENSIONS inches [mm]



RECOMMENDED PAD LAYOUT



MULTI-COLOR LED PIN REFERENCE

Code	LED Color	Pin 1	Pin 2	Pin 3	Pin 4
30	Red / Green	Red Cathode	Red Anode	Green Anode	Green Cathode
31	Yellow / Green	Yellow Cathode	Yellow Anode	Green Anode	Green Cathode
32	Red / Yellow	Red Cathode	Red Anode	Yellow Anode	Yellow Cathode
37	Red / Green / Blue	Red Cathode	Common Anode	Green Cathode	Blue Cathode
42	Red / Green / Blue	Red Cathode	Common Anode	Green Cathode	Blue Cathode

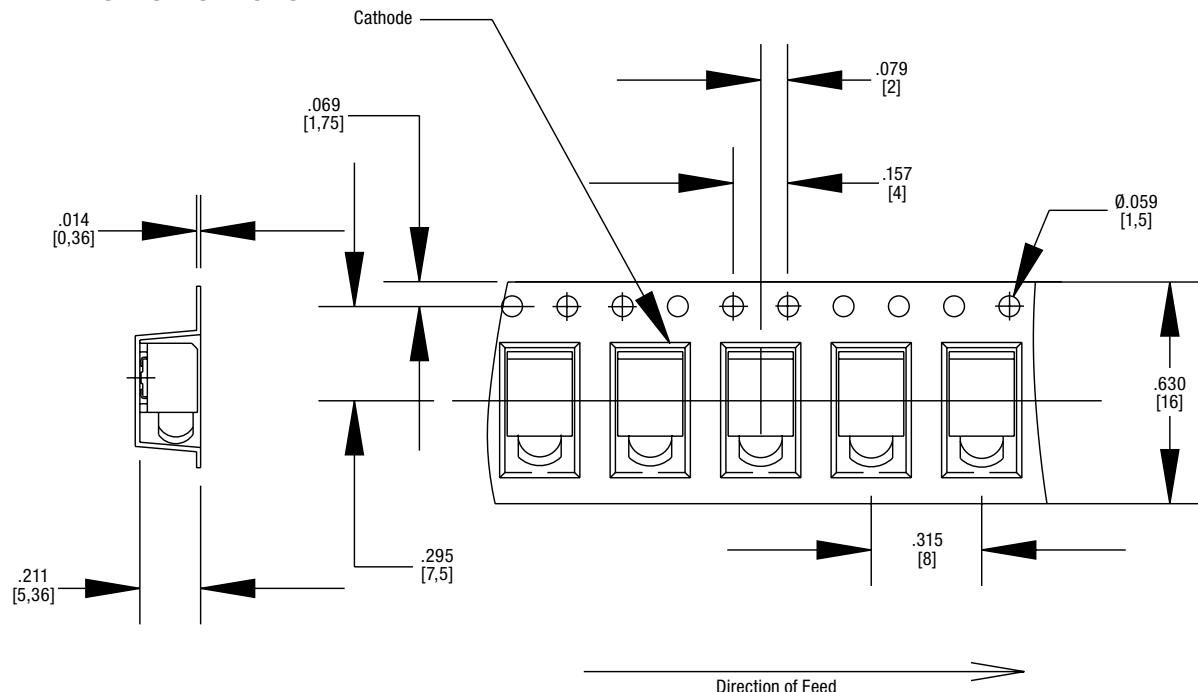
OPERATING CHARACTERISTICS AT 25°C AMBIENT

7" Reel	13" Reel	LED Color	Luminous Intensity (mcd)	Forward Voltage (V)		Dominant Wavelength (nm)	Reverse Current (µA)	MSL Rating	
			Typ.	Min.	Max.	Typ.	Max.	Typ.	
			IF=2mA						
591-3001-107F	591-3001-113F	Red	17	1.7	2.2	630	10	2	
		Green	13			570			
591-3101-107F	591-3101-113F	Yellow	20	1.7	2.2	587	10	2	
		Green	13			570			
591-3703-107F	591-3703-113F	IF=20mA						5a	
		Red	350	1.8	2.4	620	10		
		Green	1200	2.8	3.6	523			
		Blue	180	2.8	3.6	470			
591-4203-107NF	591-4203-113NF	Red	120	1.5	2.4	630	10	3	
		Green	1000	2.8	3.6	525	50		
		Blue	150	2.8	3.6	470	50		

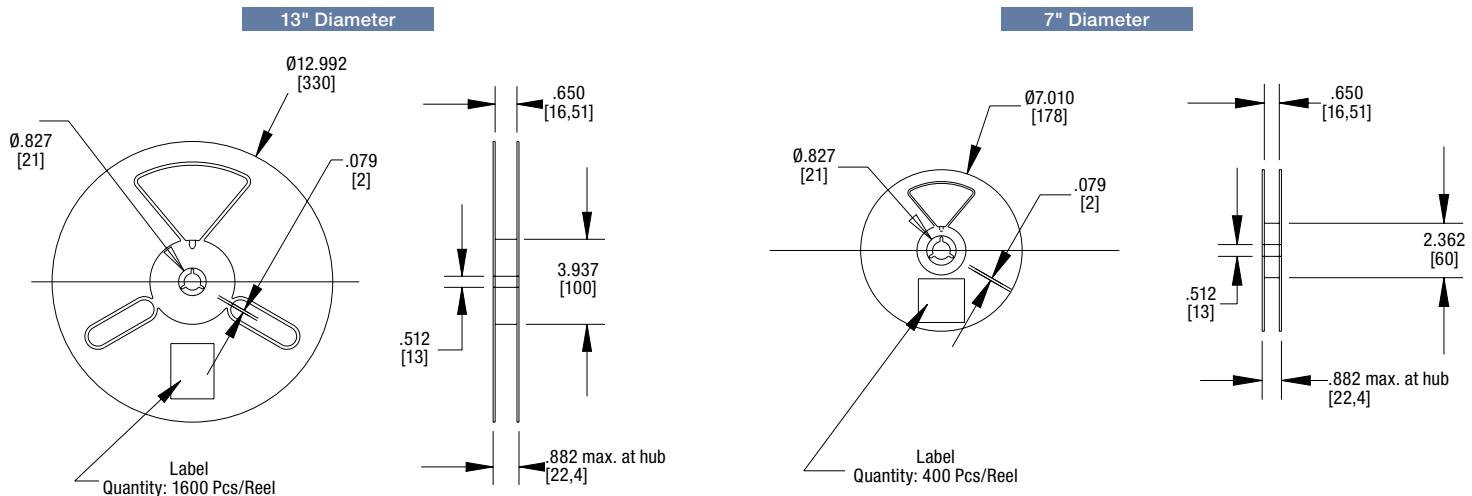
ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT

	Code 30		Code 31		Code 37			Code 42			Units
	Red	Green	Yellow	Green	Red	Green	Blue	Red	Green	Blue	
Continuous Forward Current	15		15			30		50	30	30	mA
Reverse Voltage	12		12			5			5		V
Peak Forward Current	100		100			100		130	100	100	mA
Operating Temperature Range	-40 to +100				-40 to +85				°C		
Storage Temperature Range	-40 to +100				-40 to +100				°C		

TAPE AND REEL SPECIFICATIONS



Tolerance: .004 unless otherwise specified. Millimeter dimensions shown for reference only.



REFLOW SOLDERING PROFILE:

Note: Reflow soldering should not be done more than two times.

