

598 SERIES

MicroLED® SMD LED

Right Angle

Single-Color 0603

1.6 x 1.0 x 0.8mm

MECHANICAL / SPECIFICATIONS

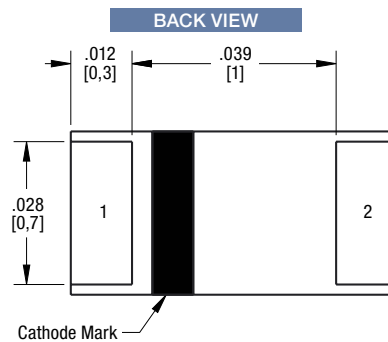
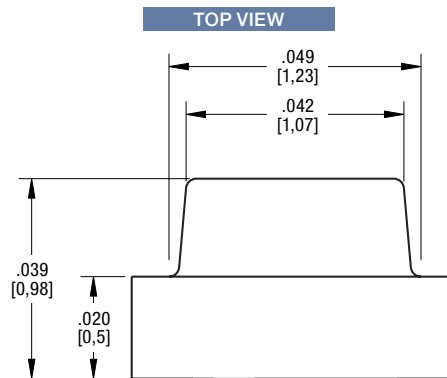
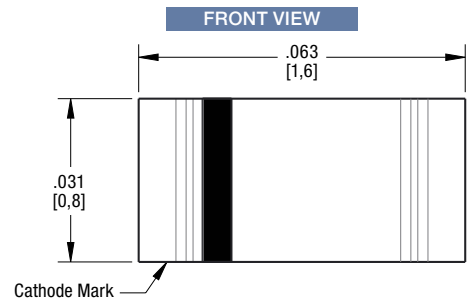
DIMENSIONS:
1.6 x 1.0 x 0.8mm

STANDARD PACKAGING:
4000 / Reel

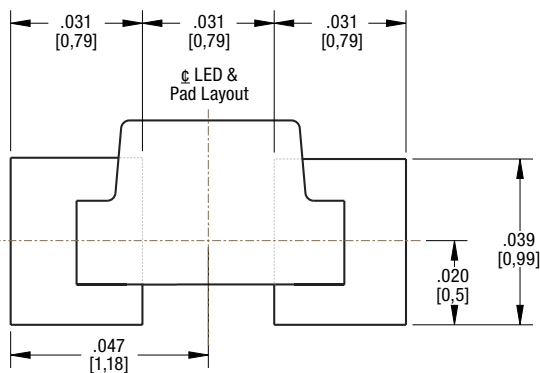
CERTIFICATIONS & RATINGS
ROHS Compliant

FEATURES & BENEFITS
MOISTURE SENSITIVITY LEVEL: 3

DIMENSIONS inches [mm]



RECOMMENDED PAD LAYOUT



LED SCHEMATICS



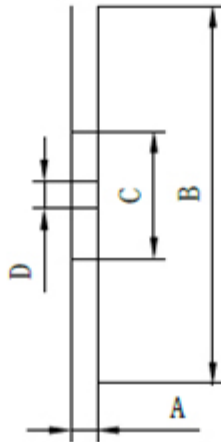
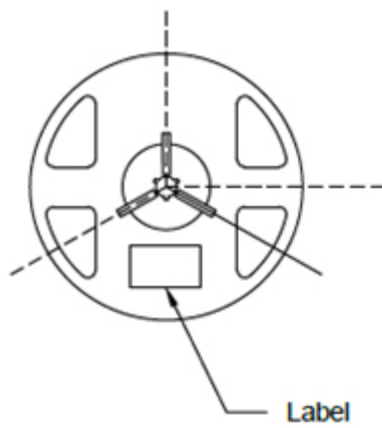
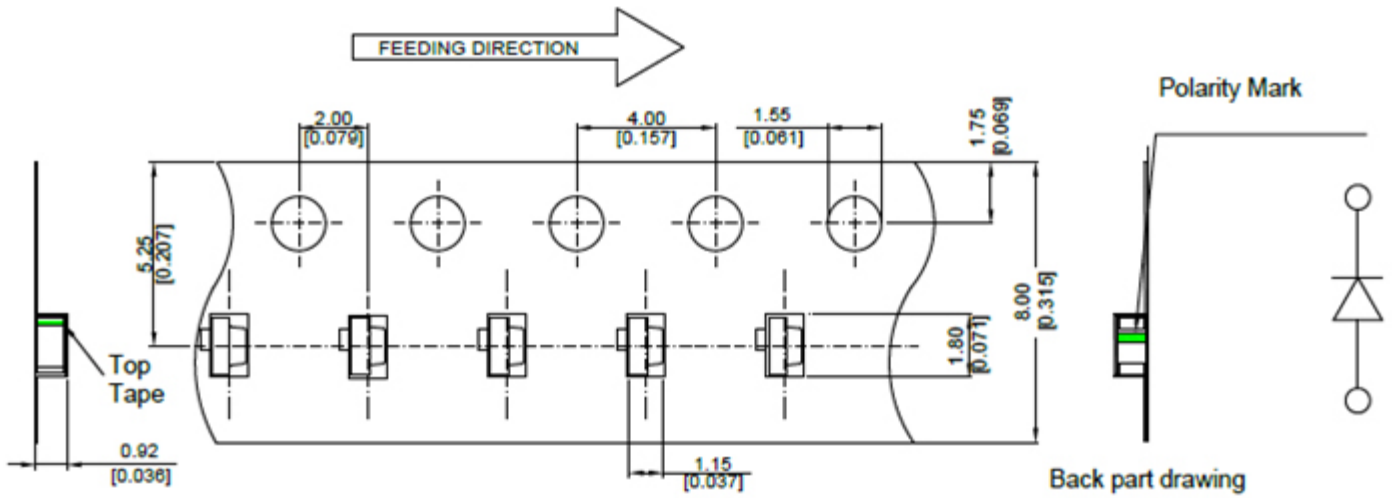
ELECTRICAL/OPTICAL CHARACTERISTICS @ 25°C

				Luminous Intensity (mcd)			Dominant Wavelength (nm)			Forward Voltage (V)			Viewing Angle (°deg.)	Reverse Current Intensity (μA)
				If=20mA										(Ir) VR=5V
Part Number	Emitted Color	Material	Lens Color	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		
598-8D10-107F	● Red	AlInGaP	Water Clear	28	65	100	630	635	640	-	1.8	2.4	140	10
598-8D20-107F	● Red-Orange			43	100	230	615	622	630	-	1.8	2.4		
598-8D30-107F	● Orange			65	150	350	600	605	610	-	1.8	2.4		
598-8D40-107F	● Yellow			65	150	350	600	605	610	-	1.8	2.4		
598-8D60-107F	● Yellow-Green			12	43	80	563	570	575	-	1.8	2.4		
598-8D80-107F	● Green	InGaN		230	530	1200	510	520	530	-	2.7	3.5		
598-8D90-107F	● Blue			43	100	230	465	470	475	-	2.7	3.5		

ABSOLUTE MAXIMUM RATINGS @ 25°C AMBIENT

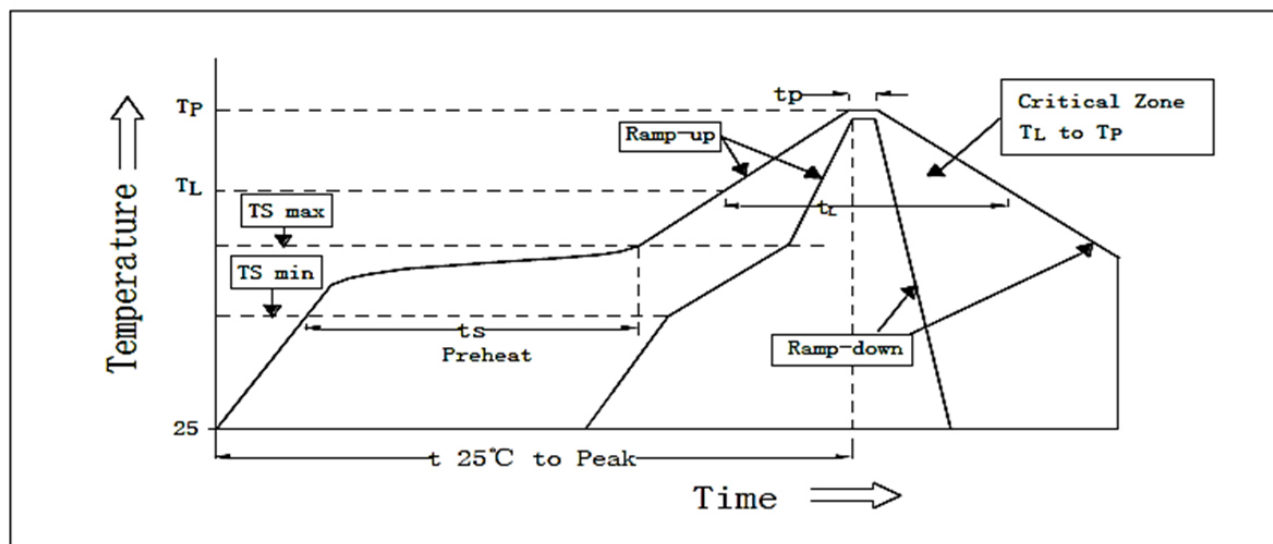
LED Color	Power Dissipation (mW)	Forward Current (mA)	Peak Forward Current (mA)	Electrostatic Discharge (V)	Operating Temperature (°C)	Storage Temperature (°C)	Soldering Condition (°C)	Junction Temperature (°C)
Red	72	30	60	2000	-40 to +100	-40 to +100	260	95
Red-Orange								
Orange								
Yellow								
Yellow-Green								
Green	105			1000				
Blue								

TAPE AND REEL SPECIFICATION



Reel Dimension

A	8.0±0.1mm
B	178±1mm
C	60±1mm
D	13.0±0.5mm



Average temperature rise speed (T _{smax} T _p)	Max 3°C/ s
Preheating: minimum temperature (T _{smin})	150°C
Preheating: Max temperature (T _{smax})	200°C
Preheating: Time (T _{smin} T _{smax})	60s-120s
Time limited to maintain high temperature: the temperature (T _L)	217 °C
Time limited to maintain high temperature: The Time (t _L)	60s-150s
Peak / Classification of temperature: (T _p)	260 °C
Time limit classification of peak temperature time (t _p)	Max 10s
Hold time within 5 °C with the actual peak temperature (TP)	Max 30s
Cooling speed	Max 6 °C/ s
Needed time from 25 °C to T _p	Max 8 minutes