

599 SERIES

MicroLED® SMD LED Single-Color 1206

3.20 x 1.60 x 1.10mm

MECHANICAL / SPECIFICATIONS

DIMENSIONS:
3.20 x 1.60 x 1.10mm

STANDARD PACKAGING:
3000 pcs / reel

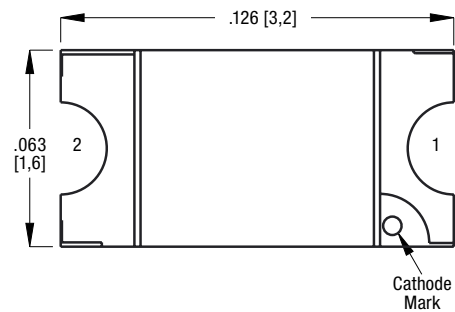
CERTIFICATIONS & RATINGS
ROHS Compliant

FEATURES & BENEFITS
MOISTURE SENSITIVITY LEVEL: 2
Compatible with Automatic Placement Equipment

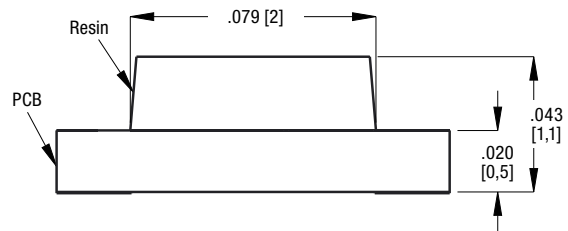
COUNTRY OF ORIGIN
Taiwan

DIMENSIONS inches [mm]

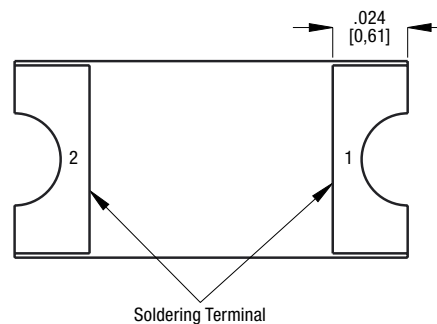
TOP VIEW



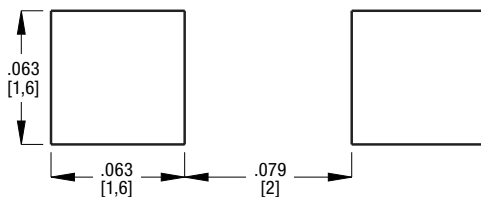
SIDE VIEW



BOTTOM VIEW



RECOMMENDED PAD LAYOUT



LED SCHEMATIC



ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C

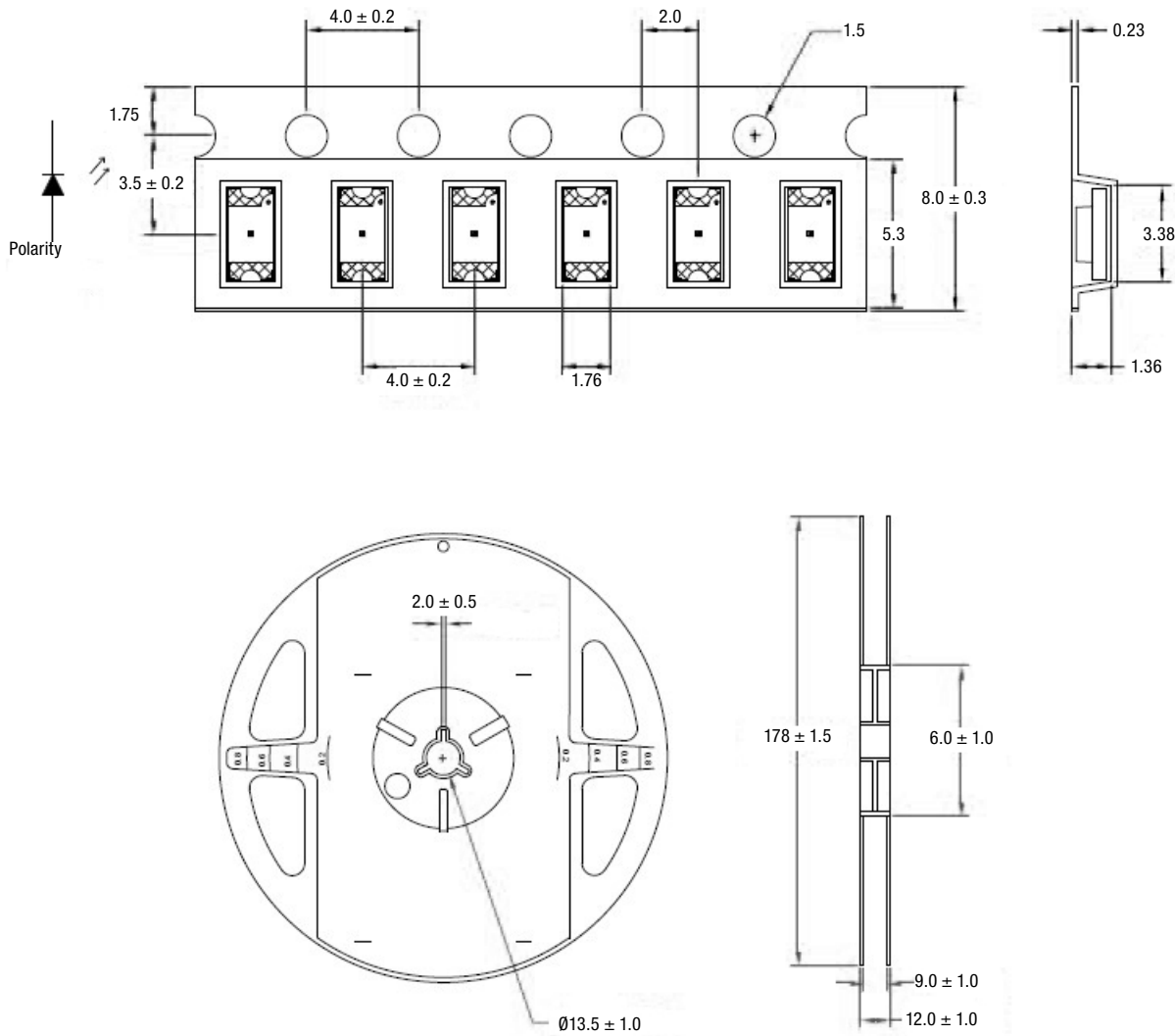
				Luminous Intensity			Dominant Wavelength			Forward Voltage			Viewing Angle (°deg.)	Reverse Current Intensity (μA)
				If=20mA										(Ir) VR=5V
Part Number	Emitted Color	Material	Lens Color	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		
599-0P10-137F	● Red	AlGaInP	Water Clear	80	150	320	624	630	636	1.6	2.1	2.5	140	10
599-0P20-137F	● Red-Orange	AlGaInP		125	320	500	621	625	630	1.6	2.1	2.5		10
599-0P30-137F	● Orange	AlGaInP		80	150	320	598	604	609	1.6	2.1	2.5		10
599-0P40-137F	● Yellow	AlGaInP		80	150	320	589	593	598	1.6	2.1	2.5		10
599-0P60-137F	● Yellow-Green	AlGaInP		32	80	125	566	570	574	1.7	2.2	2.6		10
599-0P80-137F	● Green	InGaIn		200	500	1250	519	525	531	2.8	3.2	3.6		50
599-0P90-137F	● Blue	InGaIn		80	150	320	465	470	474	2.7	3.1	3.5		50
599-2P00-137F	○ White	InGaIn	Tinted, Diffused	320	600	1250	*x=0.26 y=0.28			2.8	3.2	3.6		50

*Chromaticity Coordinates

ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

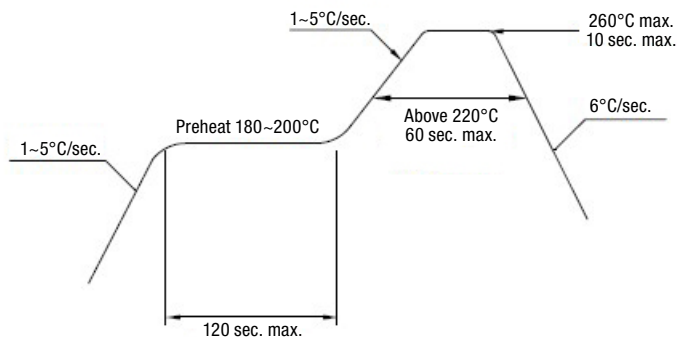
LED Color	Power Dissipation (mW)	Forward Current (mA)	Reverse Voltage (V)	Peak Forward Current *(mA)	Operating Temperature (°C)	Storage Temperature (°C)
● Red	63	25	5	60	-40 to +85	-40 to +100
● Orange	63	25		60	-40 to +85	-40 to +100
● Red-Orange	63	25		60	-40 to +85	-40 to +100
● Yellow	63	25		60	-40 to +85	-40 to +100
● Yellow-Green	65	25		60	-40 to +85	-40 to +100
● Green	72	20		100	-40 to +85	-40 to +100
● Blue	70	20		100	-40 to +85	-40 to +100
○ White	72	20		100	-40 to +85	-40 to +100

TAPE AND REEL SPECIFICATION



Unit: mm

RECOMMENDED REFLOW SOLDER PROFILE



NOTE: Reflow Soldering should not be done more than two times.