



599 SERIES

MicroLED® SMD LED

Single-Color 1208

Right Angle

3.20 x 1.00 x 1.50mm

MECHANICAL / SPECIFICATIONS

DIMENSIONS:
3.20 x 1.00 x 1.50mm

STANDARD PACKAGING:
3000 pcs / reel

CERTIFICATIONS & RATINGS

ROHS Compliant

FEATURES & BENEFITS

MOISTURE SENSITIVITY LEVEL: 2

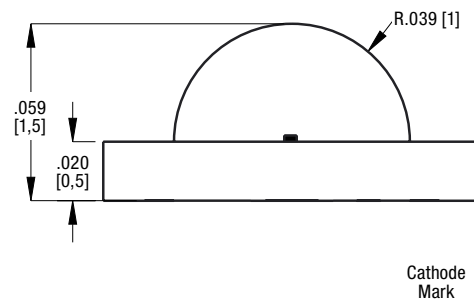
Compatible with Automatic Placement Equipment

COUNTRY OF ORIGIN

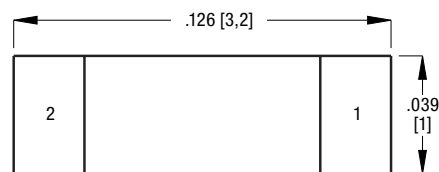
Taiwan

DIMENSIONS inches [mm]

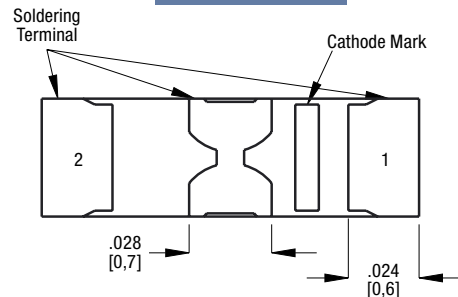
TOP VIEW



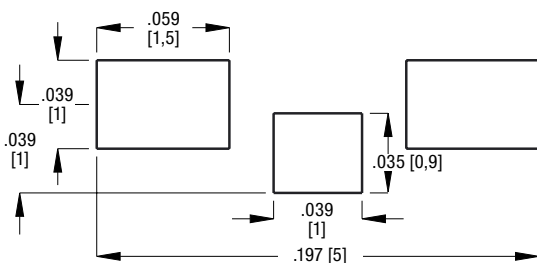
SIDE VIEW



BOTTOM VIEW



RECOMMENDED PAD LAYOUT



LED SCHEMATIC



ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C

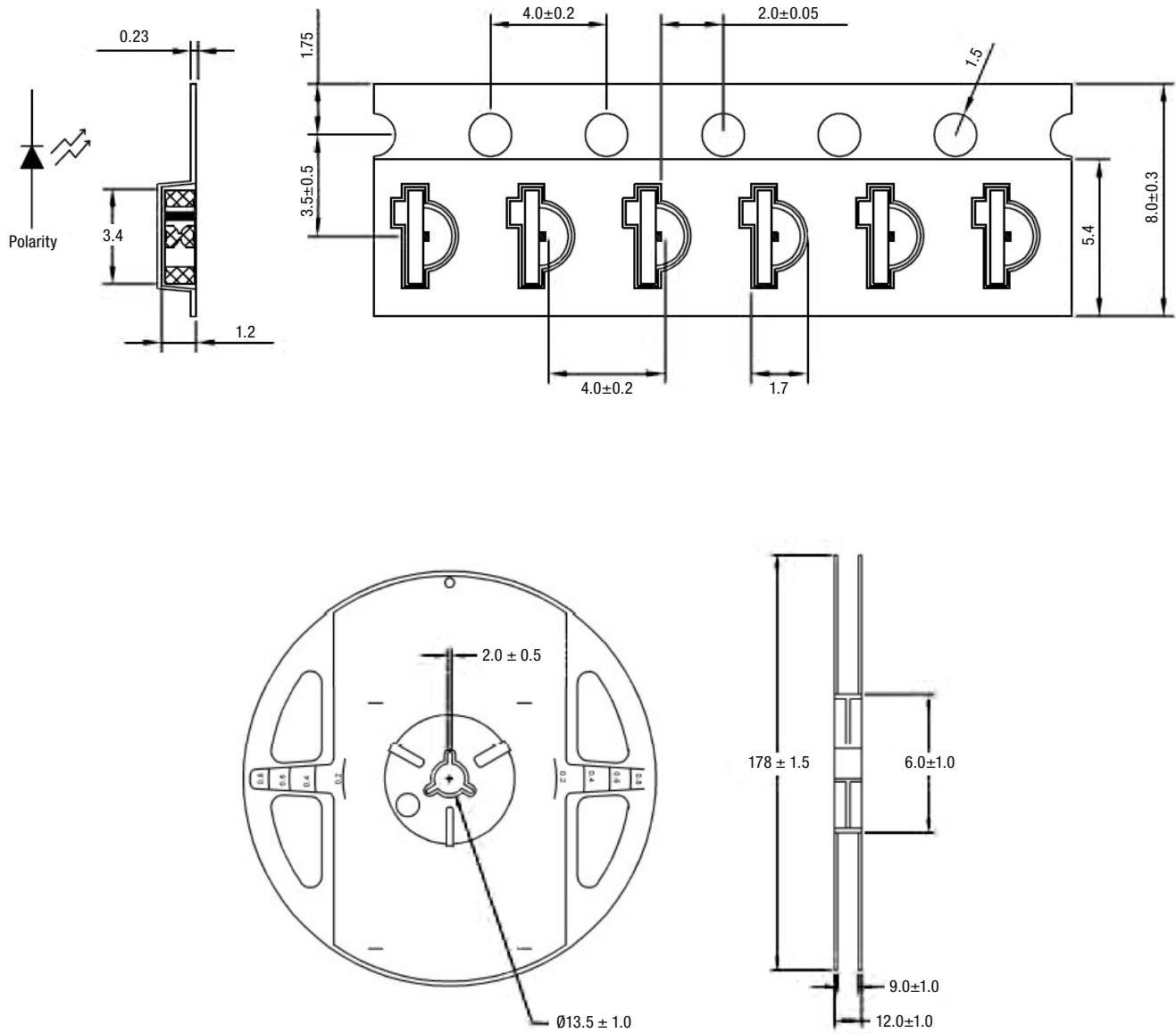
				Luminous Intensity (mcd)			Dominant Wavelength (nm)			Forward Voltage (V)			Viewing Angle (°deg.)	Reverse Current Intensity (μA)
				All Colors If=20mA / White If=5mA										
Part Number	Emitted Color	Material	Lens Color	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		(Ir) VR=5V
599-0Q10-137F	● Red	AlGaInP	Water Clear	50	125	200	624	630	636	1.7	2.1	2.5	120	10
599-0Q30-137F	● Orange	AlGaInP		125	320	500	598	603	609	1.7	2.1	2.5		10
599-0Q40-137F	● Yellow	AlGaInP		80	150	320	589	593	598	1.7	2.2	2.6		10
599-0Q60-137F	● Yellow-Green	AlGaInP		20	50	80	566	572	576	1.7	2.1	2.5		10
599-0Q80-137F	● Green	InGaN		320	800	1250	519	525	531	2.8	3.2	3.6		50
599-0Q90-137F	● Blue	InGaN		80	200	320	462	469	474	2.8	3.2	3.6		50
599-2Q00-137F	○ White	InGaN	Tinted, Diffused	200	350	800	x=0.26-0.31 y=0.23-0.34			2.8	3.2	3.6		50

*Chromaticity Coordinates

ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

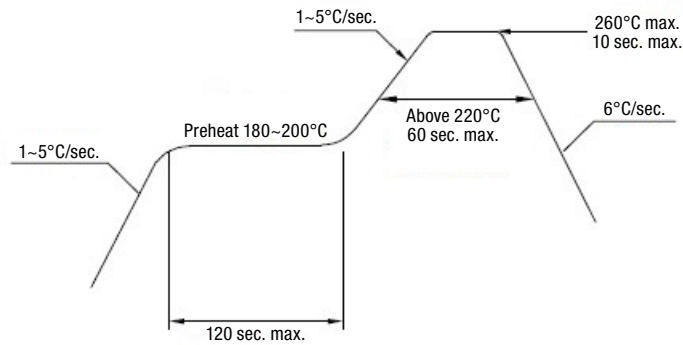
LED Color	Power Dissipation (mW)	Forward Current (mA)	Reverse Voltage (V)	Peak Forward Current *(mA)	Operating Temperature (°C)	Storage Temperature (°C)
● Red	63	25	5	75	-40 to +85	-40 to +100
● Orange	63	25		60	-40 to +85	-40 to +100
● Yellow	65	25		60	-40 to +85	-40 to +100
● Yellow-Green	63	25		60	-40 to +85	-40 to +100
● Green	72	20		100	-40 to +85	-40 to +100
● Blue	72	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.