



599 SERIES

MicroLED® SMD LED Single-Color 0805

2.00 x 1.25 x 0.80mm

MECHANICAL / SPECIFICATIONS

DIMENSIONS:
2.00 x 1.25 x 0.80mm

STANDARD PACKAGING:
4000 pcs / reel

CERTIFICATIONS & RATINGS

ROHS Compliant

FEATURES & BENEFITS

MOISTURE SENSITIVITY LEVEL: 2

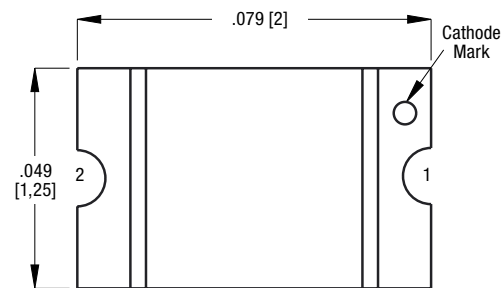
Compatible with Automatic Placement Equipment

COUNTRY OF ORIGIN

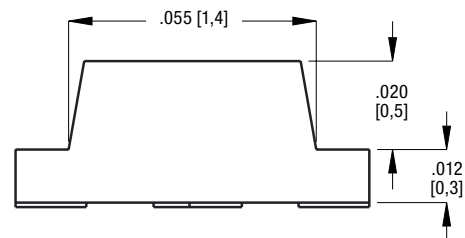
Taiwan

DIMENSIONS inches [mm]

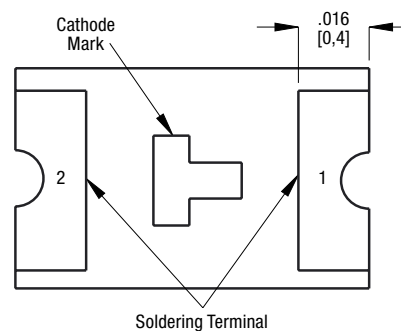
TOP VIEW



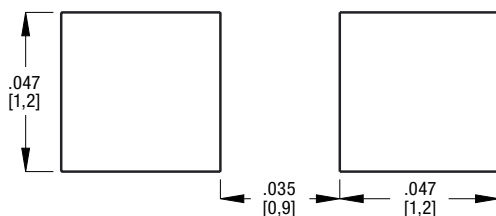
SIDE VIEW



BOTTOM VIEW



RECOMMENDED PAD LAYOUT



LED SCHEMATIC



ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C

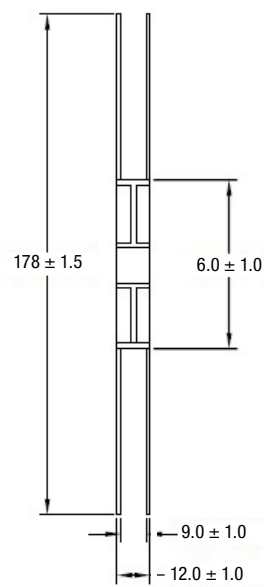
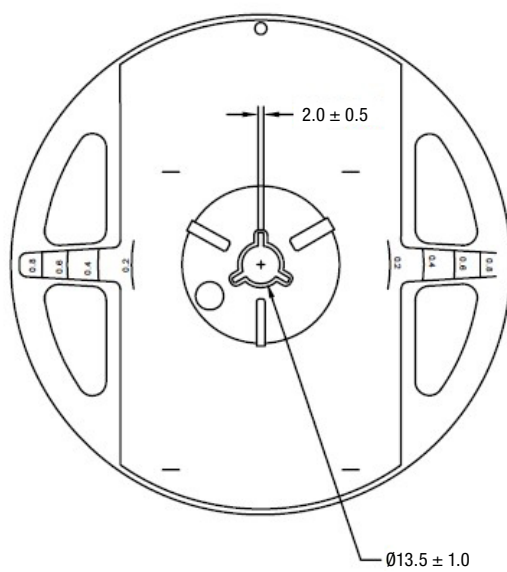
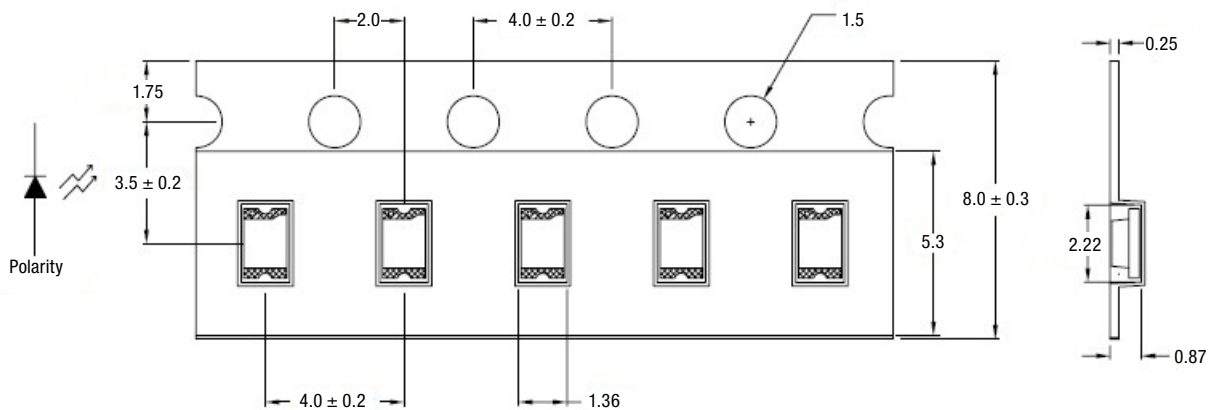
				Luminous Intensity			Dominant Wavelength			Forward Voltage			Viewing Angle (°deg.)	Reverse Current Intensity (μA)
				If=20mA										(Ir) VR=5V
Part Number	Emitted Color	Material	Lens Color	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		
599-0110-137F	● Red	AlGaInP	Water clear	32	80	200	624	630	636	1.5	2	2.4	140	10
599-0130-137F	● Orange	AlGaInP		80	125	200	600	606	612	1.5	2	2.4		10
599-0140-137F	● Yellow	AlGaInP		80	150	320	589	593	598	1.6	2.1	2.5		10
599-0160-137F	● Yellow-Green	AlGaInP		32	80	125	568	572	576	1.7	2.2	2.6		10
599-0180-137F	● Green	InGaN		200	500	1250	519	525	531	2.8	3.2	3.6		50
599-0190-137F	● Blue	InGaN		50	125	320	465	470	477	2.8	3.2	3.6		50
599-2100-137F	○ White	InGaN		320	500	1250	*x=0.30 y=0.28			2.8	3.2	3.6		50

*Chromaticity Coordinates

ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

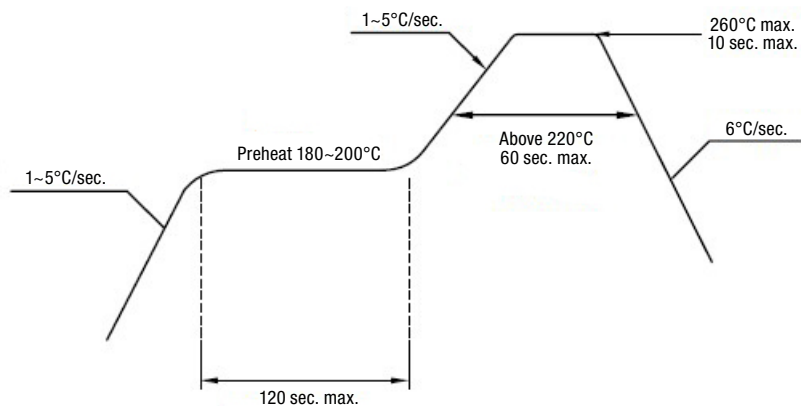
LED Color	Power Dissipation (mW)	Forward Current (mA)	Reverse Voltage (V)	Peak Forward Current *(mA)	Operating Temperature (°C)	Storage Temperature (°C)
● Red	60	25	5	75	-40 to +85	-40 to +100
● Orange	60	25		60	-40 to +85	-40 to +100
● Yellow	62.5	25		60	-40 to +85	-40 to +100
● Yellow-Green	65	25		60	-40 to +85	-40 to +100
● Green	72	20		100	-40 to +85	-40 to +100
● Blue	72	20		100	-40 to +85	-40 to +100
○ White	62	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.