



599 SERIES

MicroLED® SMD LED Single-Color 0605 Right Angle

1.70 x 0.60 x 1.1mm

MECHANICAL / SPECIFICATIONS

DIMENSIONS:
1.70 x 0.60 x 1.1mm

STANDARD PACKAGING:
3000 pcs / reel

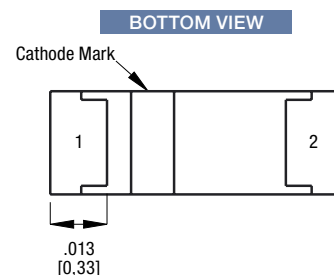
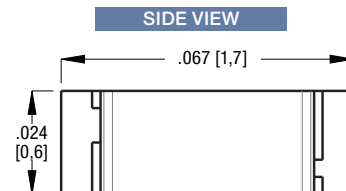
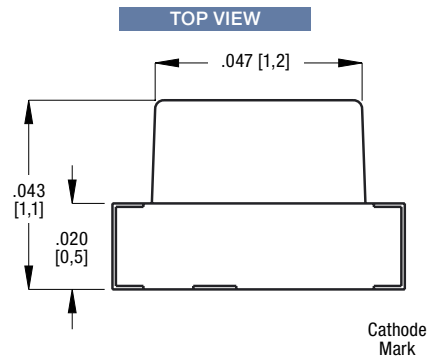
CERTIFICATIONS & RATINGS
ROHS Compliant

FEATURES & BENEFITS

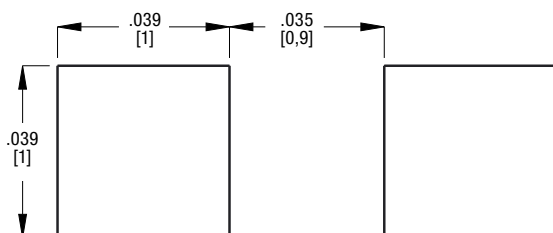
MOISTURE SENSITIVITY LEVEL: 2
Compatible with Automatic Placement Equipment

COUNTRY OF ORIGIN
Taiwan

DIMENSIONS inches [mm]



RECOMMENDED PAD LAYOUT



LED SCHEMATIC



ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C

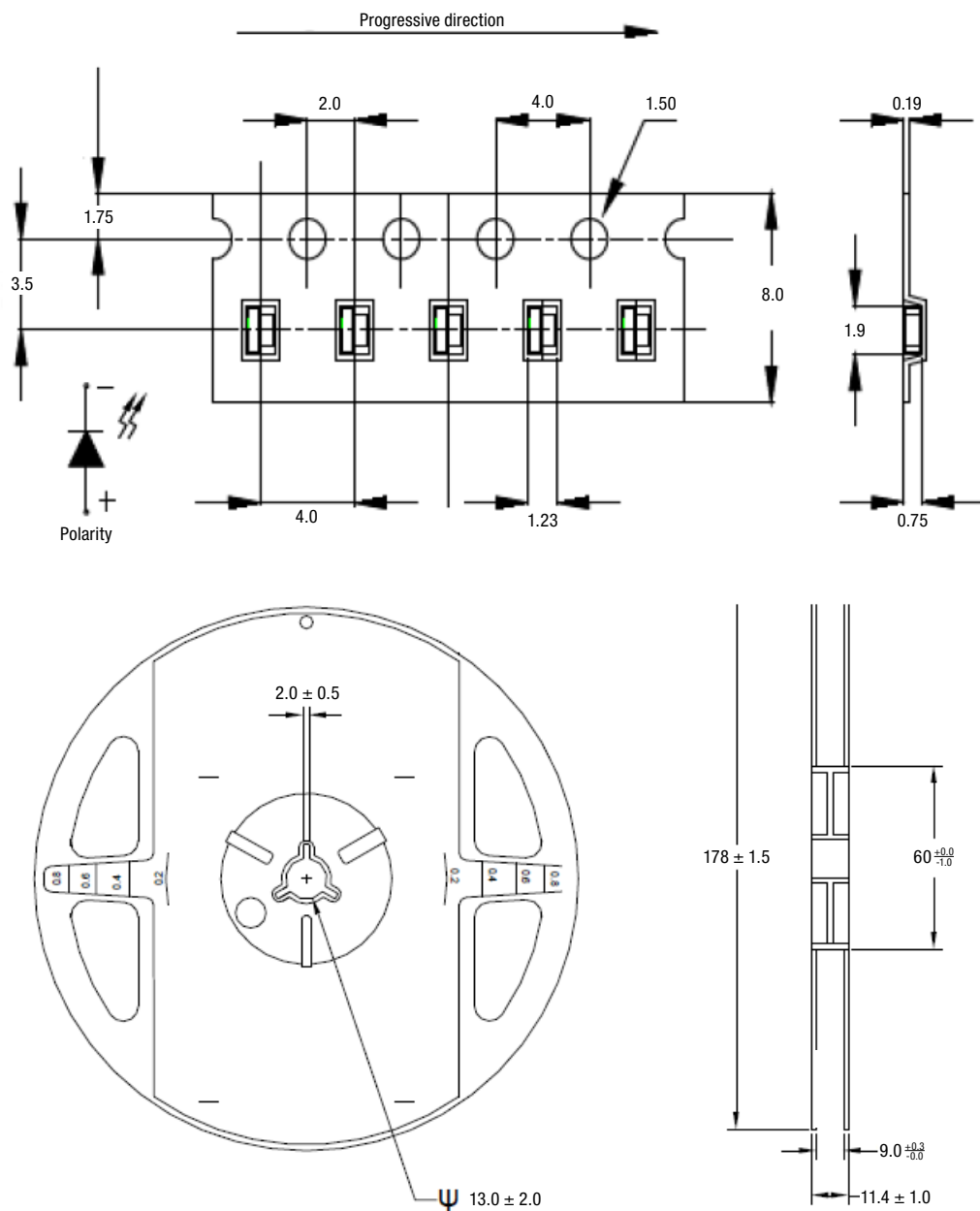
				Luminous Intensity			Dominant Wavelength			Forward Voltage			Viewing Angle (°deg.)	Reverse Current Intensity (μA)
				All Colors If=20mA / White If=5mA										
Part Number	Emitted Color	Material	Lens Color	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		(Ir) VR=5V
599-0R10-137F	● Red	AlGaInP	Water Clear	28	45	72	629	638	646	1.75	2.05	2.35	130	10
599-0R30-137F	● Orange	AlGaInP		45	72	112	600	606	613	1.75	2.05	2.35		10
599-0R40-137F	● Yellow	AlGaInP		90	135	180	585	590	595	1.70	2.00	2.30		10
599-0R60-137F	● Yellow-Green	AlGaInP		36	57	90	569	573	578	1.75	2.05	2.35		10
599-0R80-137F	● Green	InGaIn		112	180	285	520	525	535	2.75	3.35	3.95		50
599-0R90-137F	● Blue	InGaIn		28	45	72	464	471	477	2.7	3.2	3.7		50
599-2R00-137F	○ White	InGaIn	Tinted, Diffused	45	72	112	x=0.29 y=0.29			2.5	2.9	3.2		50

*Chromaticity Coordinates

ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

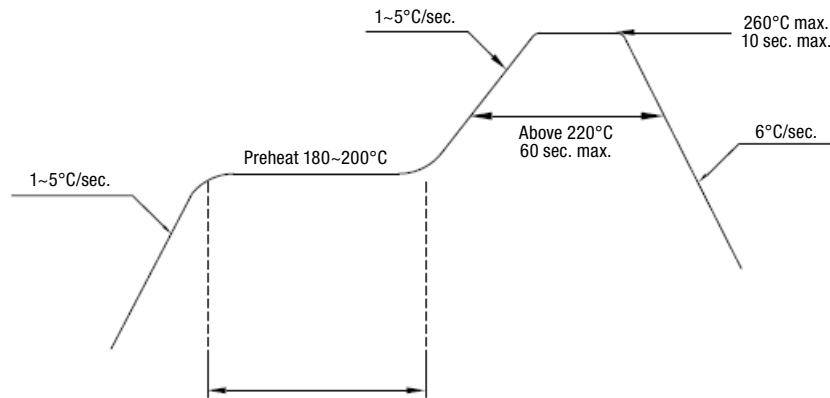
LED Color	Power Dissipation (mW)	Forward Current (mA)	Reverse Voltage (V)	Peak Forward Current *(mA)	Operating Temperature (°C)	Storage Temperature (°C)
● Red	60	25	5	60	-40 to +85	-40 to +90
● Orange	60	25		60	-40 to +85	-40 to +90
● Yellow	60	25		60	-40 to +85	-40 to +90
● Yellow-Green	60	25		60	-40 to +85	-40 to +90
● Green	110	25		100	-40 to +85	-40 to +90
● Blue	110	25		100	-40 to +85	-40 to +90
○ White	95	25		100	-40 to +85	-40 to +90

TAPE AND REEL SPECIFICATION



Unit: mm

RECOMMENDED REFLOW SOLDER PROFILE



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