

Features

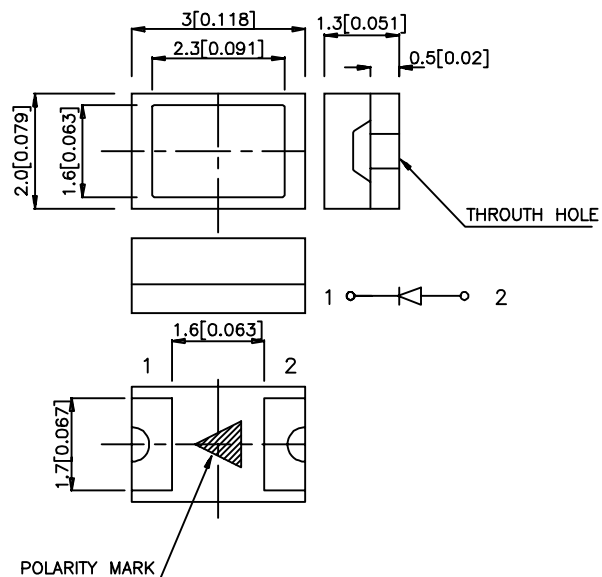
- 3.0mmX2.0mm SMT LED, 1.3mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

APK3020MGC MEGA GREEN

Package Dimensions

Description

The Mega Green source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.2 (0.0079") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
APK3020MGC	MEGA GREEN (InGaAlP)	WATER CLEAR	50	80	120°

Note:

1. $\theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

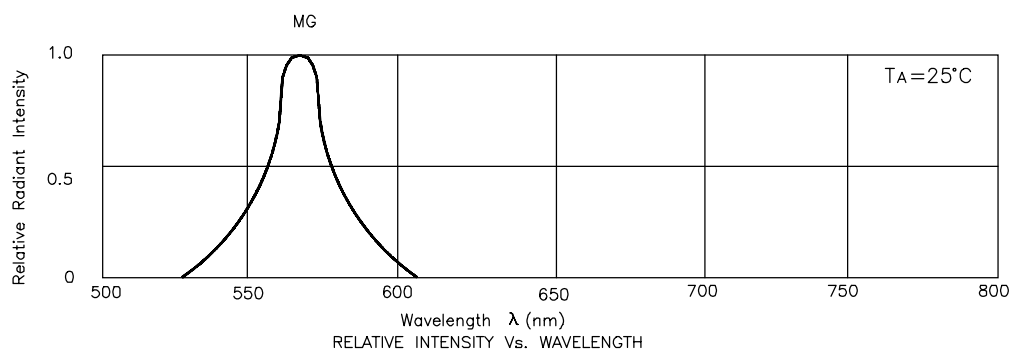
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Mega Green	565		nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Mega Green	25		nm	$I_F=20\text{mA}$
C	Capacitance	Mega Green	20		pF	$V_F=0\text{V}; f=1\text{MHz}$
V_F	Forward Voltage	Mega Green	2.25	2.5	V	$I_F=20\text{mA}$
I_R	Reverse Current	All		10	μA	$V_R = 5\text{V}$

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

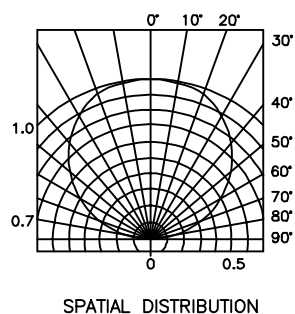
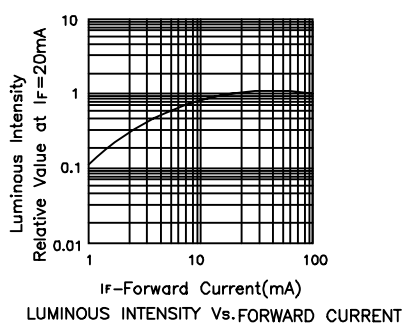
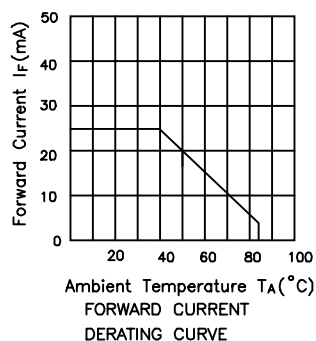
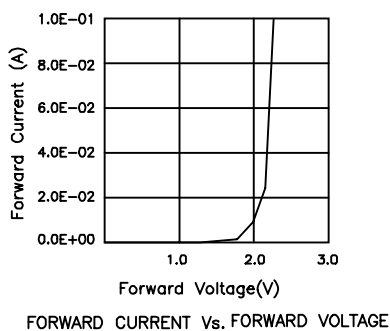
Parameter	Mega Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	200	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To $+85^\circ\text{C}$	

Note:

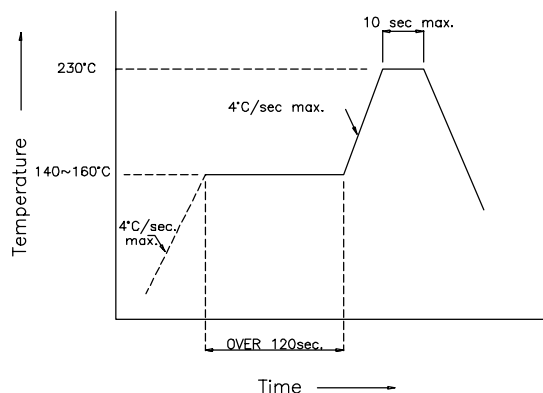
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



Mega Green APK3020MGC

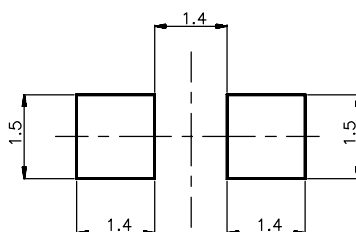


APK3020MGC SMT Reflow Soldering Instructions



APK3020MGC Recommended Soldering Pattern (Units : mm)

FOR REFLOW SOLDERING



APK3020MGC Tape Specifications (Units : mm)

