Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
KA-3528MGC	MEGA GREEN (InGaAlP)	WATER CLEAR	70	150	120°

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

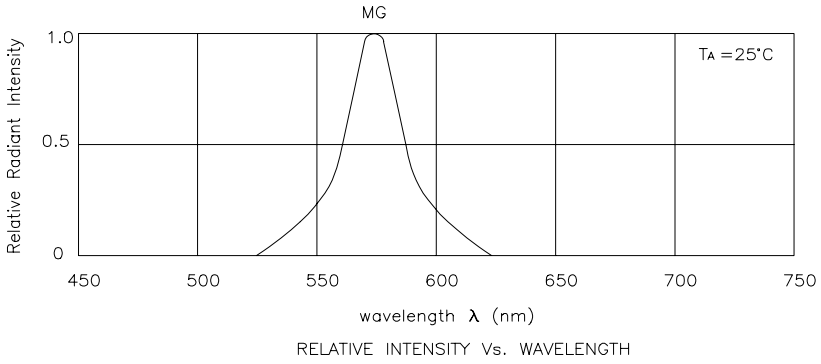
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green	574		nm	I_F=20mA
λ D	Dominate Wavelength	Mega Green	568		nm	I_F=20mA
Δλ 1/2	Spectral Line Half-width	Mega Green	26		nm	I_F=20mA
C	Capacitance	Mega Green	20		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	Mega Green	2.1	2.5	V	I_F=20mA
I_R	Reverse Current	Mega Green		10	uA	V_R = 5V

Absolute Maximum Ratings at T_A=25°C

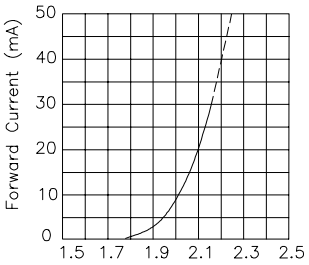
Parameter	Mega Green	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

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

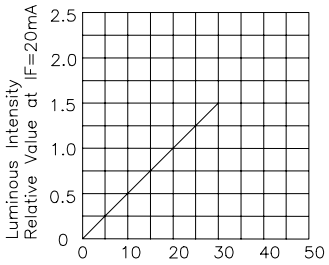


RELATIVE INTENSITY Vs. WAVELENGTH

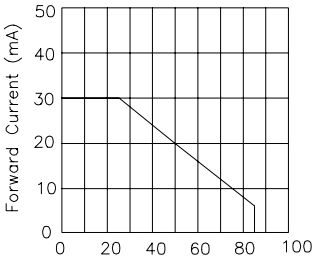
Mega Green KA-3528MGC



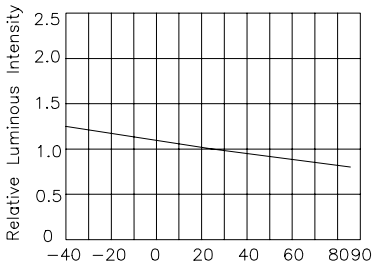
FORWARD CURRENT Vs. FORWARD VOLTAGE



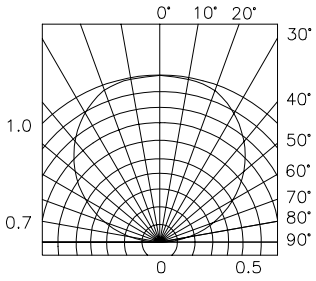
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

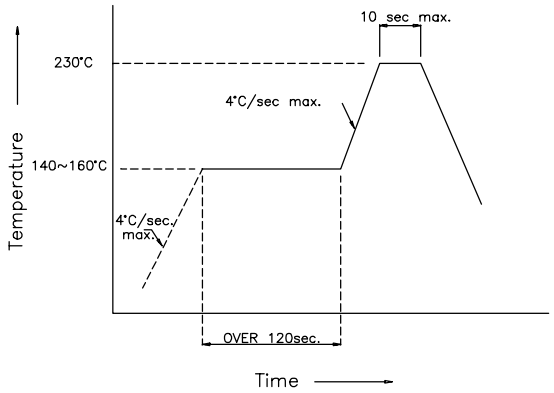


SPATIAL DISTRIBUTION

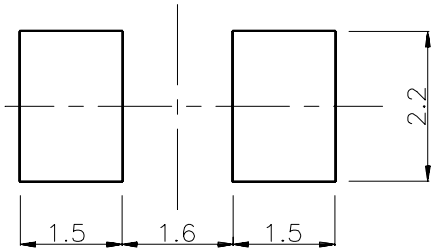
KA-3528MGC

SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern
(Units : mm)



Tape Specifications
(Units : mm)