

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
AA3528APR7C/A	PURPLE (InGaN)	WATER CLEAR	110	160	120°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V _F [1]	Forward Voltage	Purple	3.2	4.0	V	I _F =20mA
I _R	Reverse Current	Purple		10	uA	V _R = 5V
X [2]	Chromaticity Coordinates	Purple	0.22			
Y [2]			0.1			
C	Capacitance	Purple	100		pF	V _F =0V;f=1MHz

Notes:

1. Forward Voltage: +/-0.1V.
2. Measurement tolerance of the chromaticity coordinates is ±0.01

Absolute Maximum Ratings at TA=25°C

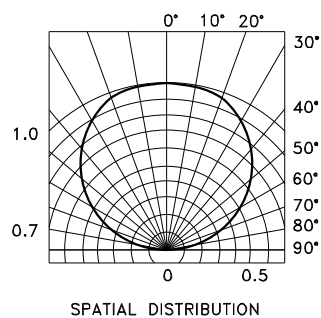
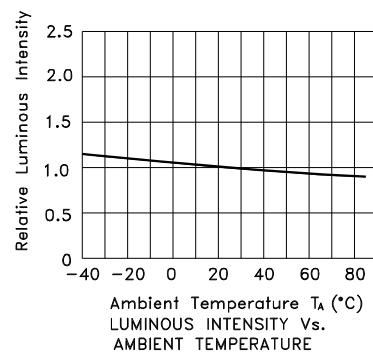
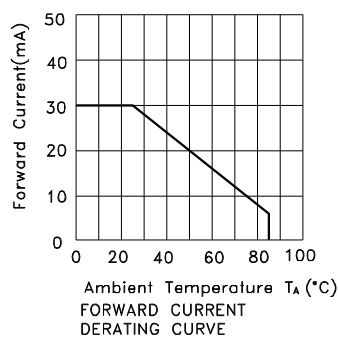
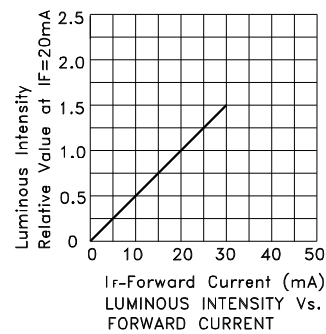
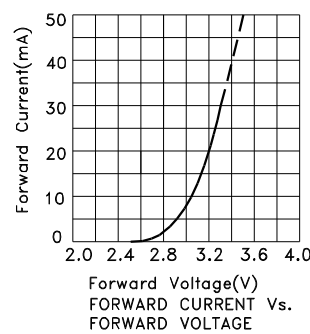
Parameter	Purple	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

Note:

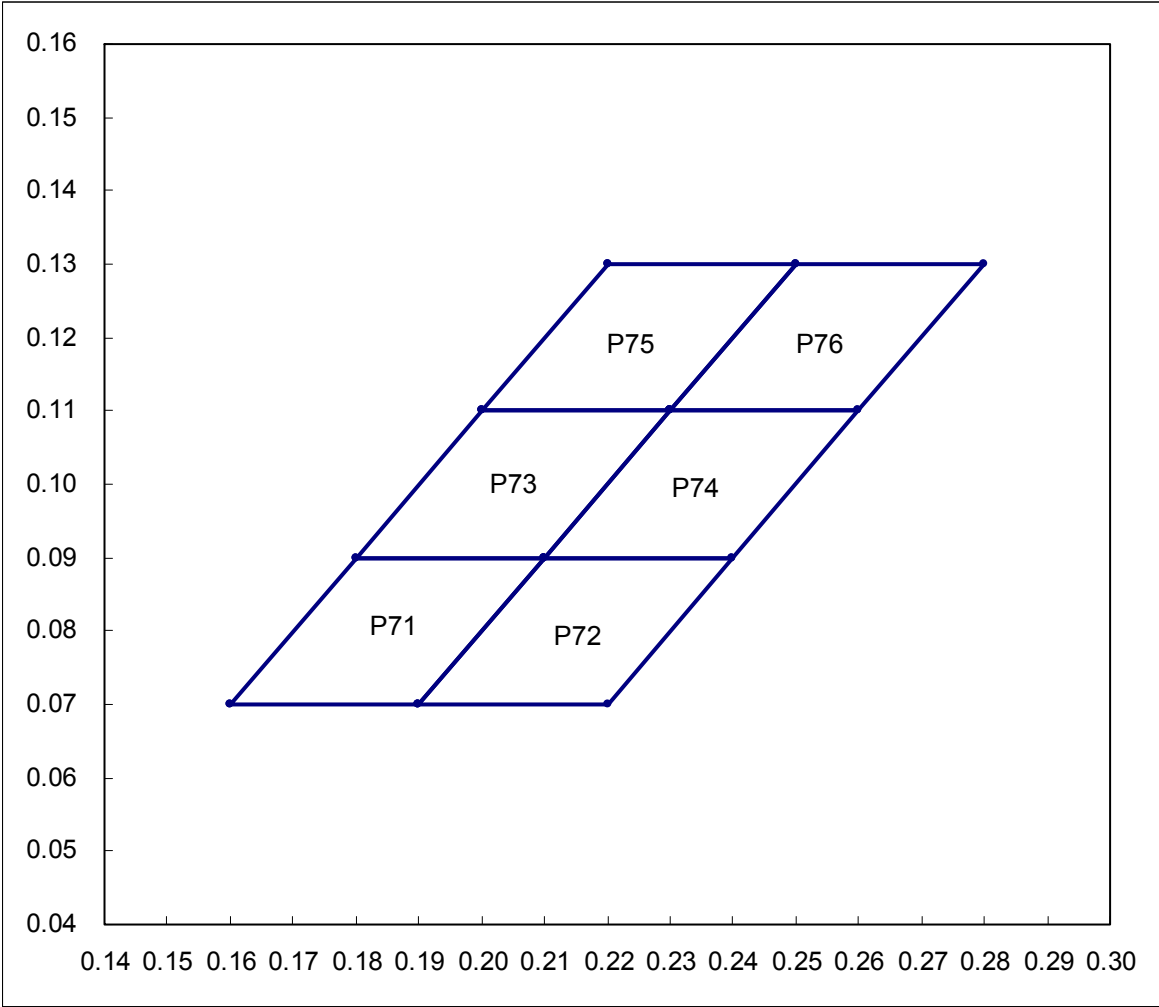
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

Purple

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P71				
X	0.160	0.190	0.210	0.180
Y	0.070	0.070	0.090	0.090

P72				
X	0.190	0.220	0.240	0.210
Y	0.070	0.070	0.090	0.090

P73				
X	0.180	0.210	0.230	0.200
Y	0.090	0.090	0.110	0.110

P74				
X	0.210	0.240	0.260	0.230
Y	0.090	0.090	0.110	0.110

P75				
X	0.200	0.230	0.250	0.220
Y	0.110	0.110	0.130	0.130

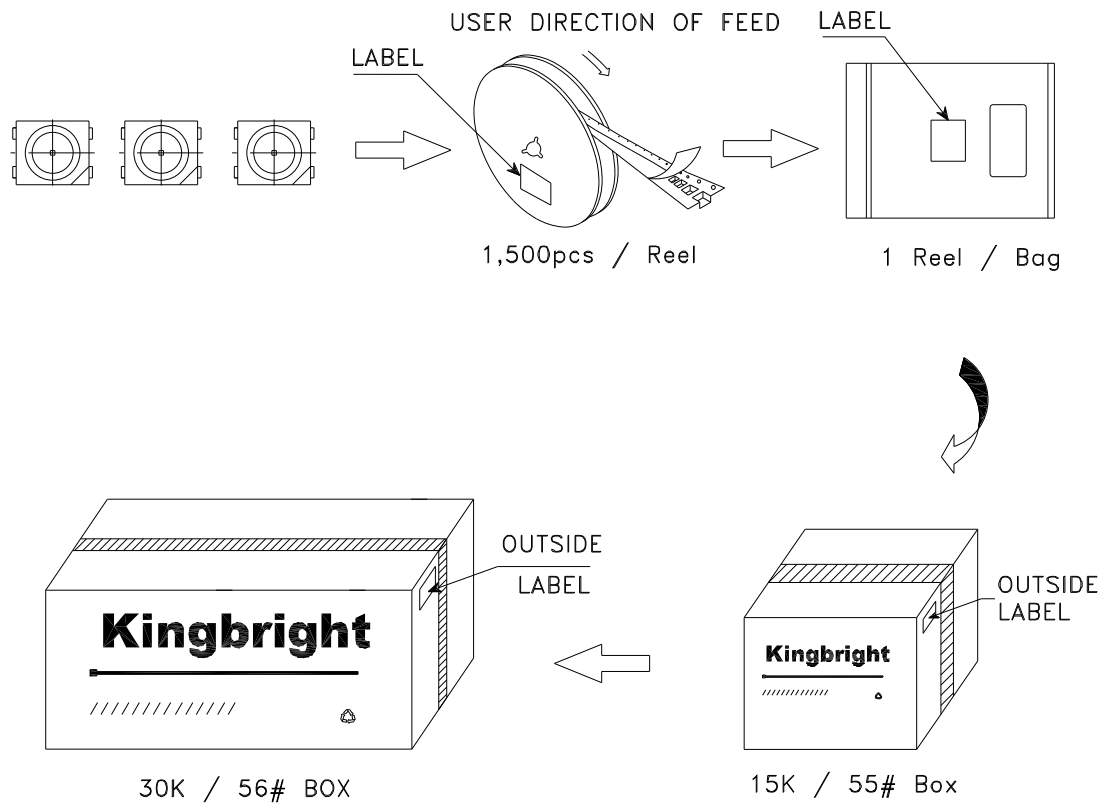
P76				
X	0.230	0.260	0.280	0.250
Y	0.110	0.110	0.130	0.130

Figure 1 is a line graph showing the temperature profile of the furnace during the heat treatment of the samples. The Y-axis represents Temperature in degrees Celsius (°C), ranging from 0 to 300. The X-axis represents Time in seconds (sec), ranging from 0 to 300. The profile starts at 25°C at 0 seconds. It rises at a rate of 4°C/s to 150°C at 40 seconds. From 150°C, it rises at a rate of 1°C/s to 180°C at 120 seconds. From 180°C, it rises at a rate of 4°C/s to 260°C at 160 seconds. It then holds at 260°C for 10 seconds (170s). Finally, it cools at a rate of 4°C/s to 100°C at 250 seconds. Key points and rates are labeled: 25°C, 4°C/s max, 150~180°C, 1°C/s max, 260°C max, 10 s max, 4°C/s max, and 30~50s.

[illegible]

PACKING & LABEL SPECIFICATIONS

AA3528APR7C/A



Kingbright	
P/NO: AA3528Axxx	
QTY: 1,500 pcs	Q.C. Q C xx xx xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	