

Part Number: TC40-11CGKWA

Green

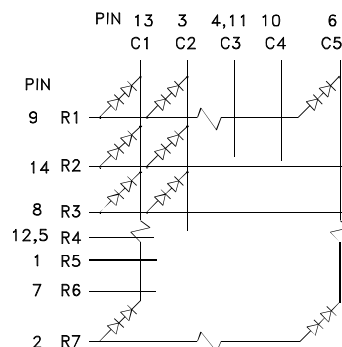
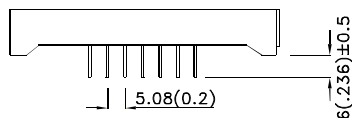
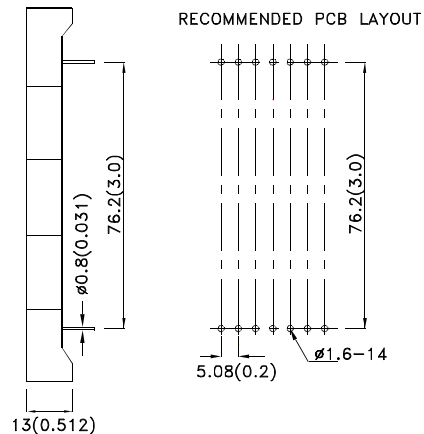
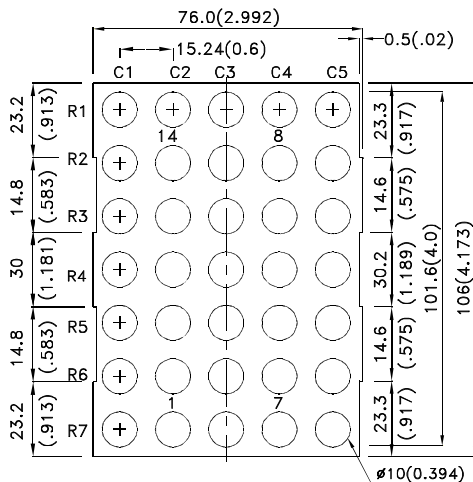
Features

- 4.0 inch matrix height.
- Dot size 10mm.
- Low current operation.
- High contrast and light output.
- Stackable horizontally.
- Easy mounting on p.c. boards or sockets.
- Multicolor available.
- Mechanically rugged.
- Standard : gray face, white dot.
- RoHS compliant.

Description

The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
TC40-11CGKWA	Green (AlGaInP)	WHITE DIFFUSED	26000	90000	Column Cathode

Note:

1. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ peak	Peak Wavelength	Green	574		nm	IF=20mA
λ D	Dominate Wavelength	Green	570		nm	IF=20mA
$\Delta\lambda$ 1/2	Spectral Line Half-width	Green	20		nm	IF=20mA
C	Capacitance (Per Chip)	Green	15		pF	VF=0V;f=1MHz
VF	Forward Voltage (Per Dot)	Green	4.2	5	V	IF=20mA
IR	Reverse Current (Per Dot)	Green		10	uA	VR = 10V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units
Power dissipation (Per Dot)	150	mW
DC Forward Current (Per Dot)	30	mA
Peak Forward Current [1] (Per Dot)	150	mA
Reverse Voltage (Per Dot)	10	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[2]	260°C For 3-5 Seconds	

Notes:

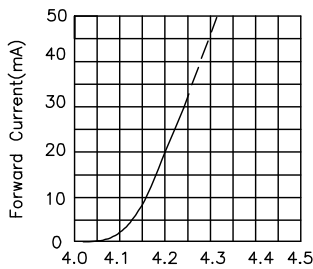
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

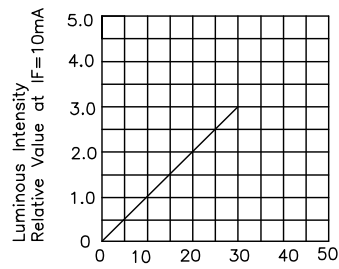


Green

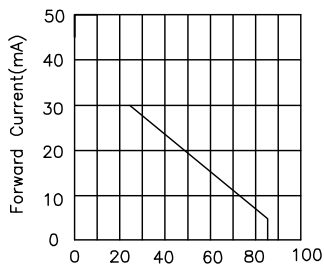
TC40-11CGKWA



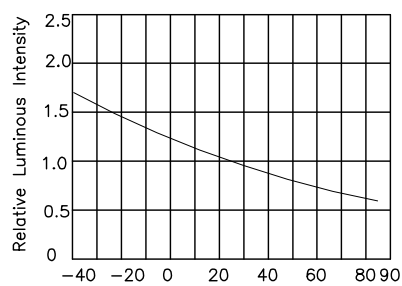
Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



I_F -Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



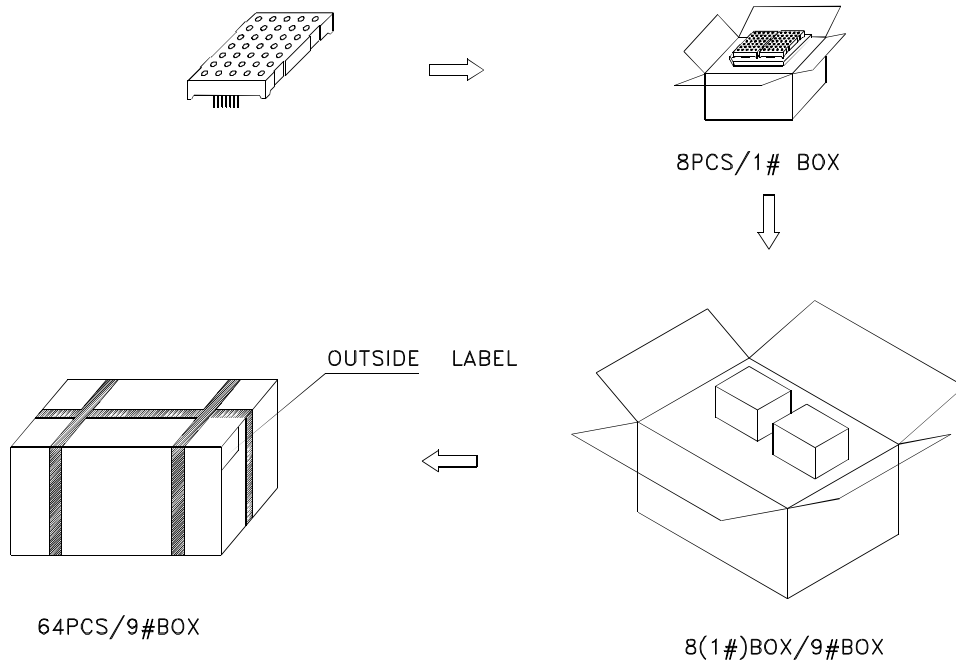
Ambient Temperature $T_A(^{\circ}\text{C})$
FORWARD CURRENT
DERATING CURVE



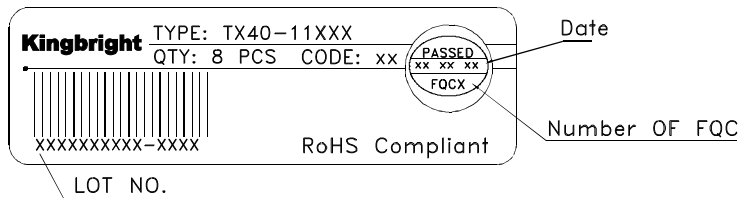
Ambient Temperature $T_A(^{\circ}\text{C})$
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

PACKING & LABEL SPECIFICATIONS

TC40-11CGKWA



Inside LABEL Paste On The 1#BOX



Outside LABEL Paste On The Box

