imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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18mm (0.7 INCH) SINGLE COLOR DOT MATRIX DISPLAY

Part Number: TC07-11EWA

High Efficiency Red

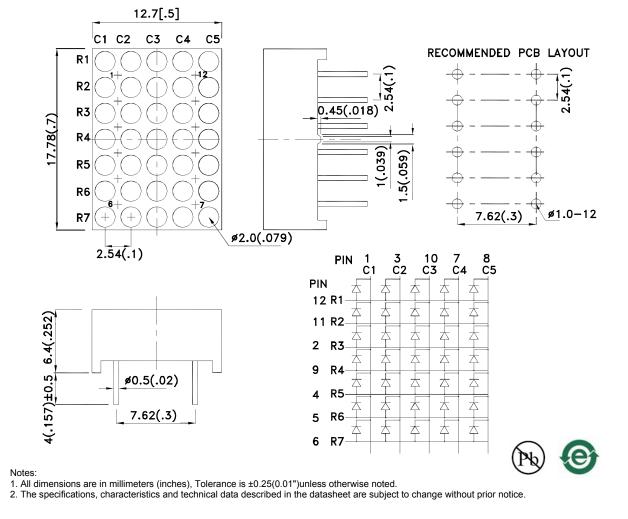
Features

- 0.7 inch matrix height.
- Dot size 2mm.
- Low current operation.
- Compatible with ASCII and EBCDIC codes.
- Stackable vertically and horizontally.
- Easy mounting on P.C. boards or sockets.
- Mechanically rugged.
- Standard: gray face, white dot.
- RoHS compliant.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions& Internal Circuit Diagram



SPEC NO: DSAB4336 APPROVED: WYNEC REV NO: V.13 CHECKED: Joe Lee DATE: MAR/15/2011 DRAWN: J.Yu PAGE: 1 OF 6 ERP: 1332000460

Selection Guide									
Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.	-				
TC07-11EWA	High Efficiency Red (GaAsP/GaP)	White Diffused	3600	8200	Column Cathode				

Note:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	I⊧=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	2.0	2.5	V	I⊧=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR=5V

Notes:

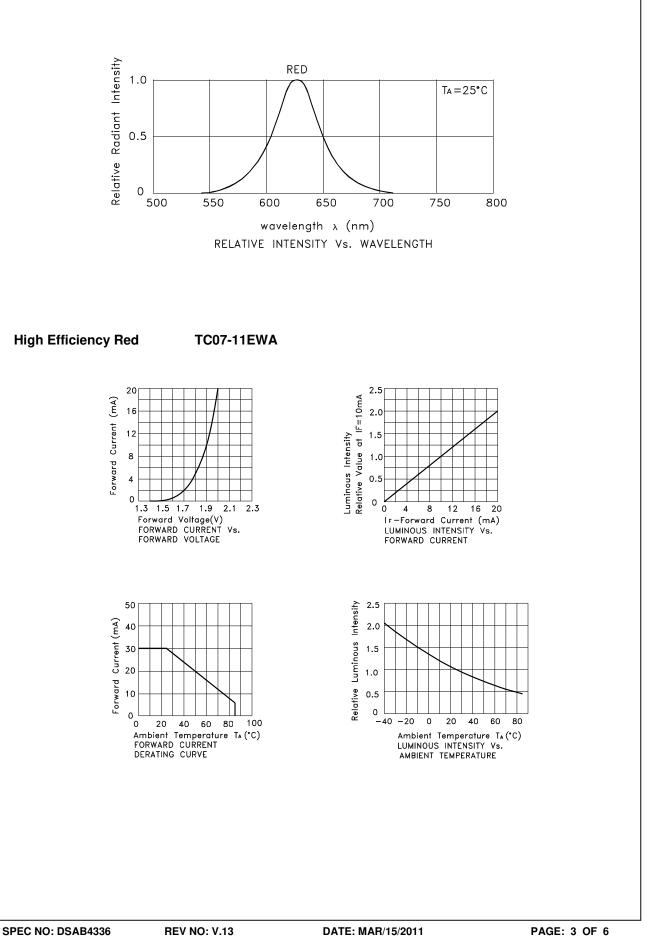
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

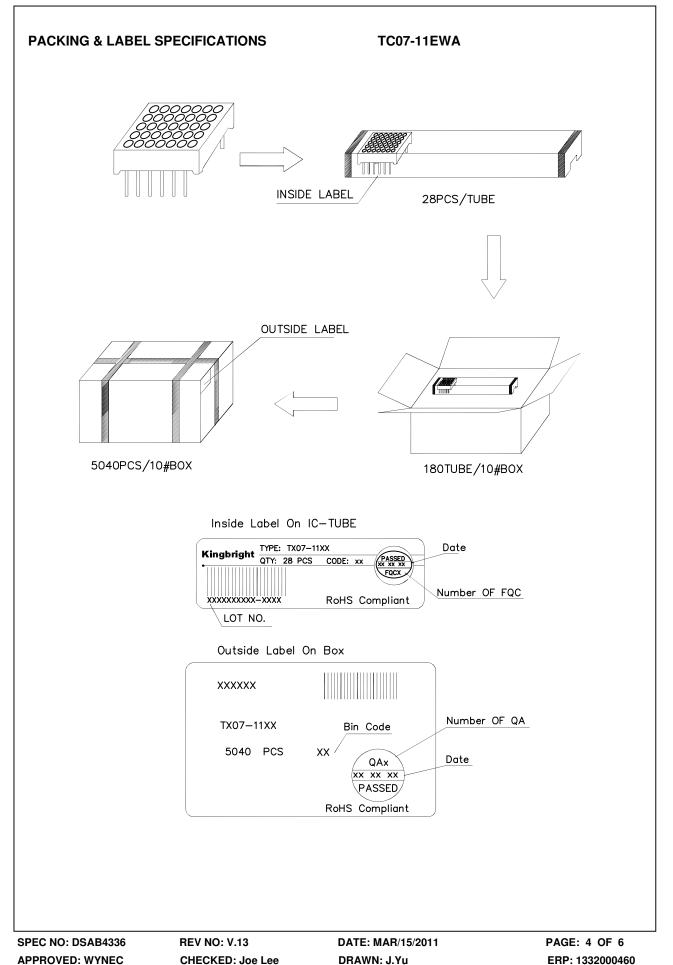
Absolute Maximum Ratings at TA=25°C

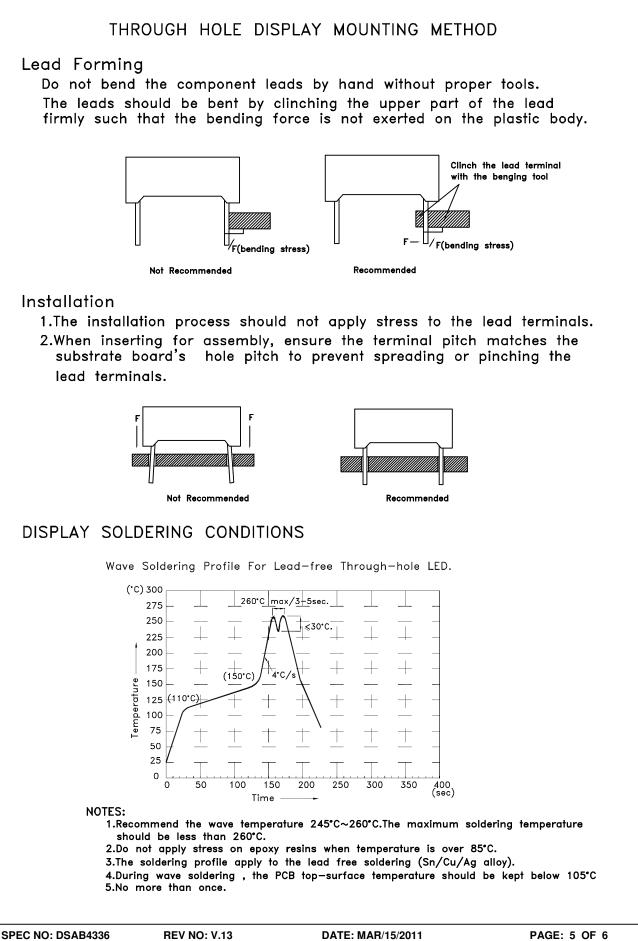
Parameter	High Efficiency Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	Temperature -40°C To +85°C		
Lead Solder Temperature[2]	260°C For 3-5 Seconds		

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.







Soldering General Notes:

- a. Through-hole displays are incompatible with reflow soldering.
- b. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Kingbright for compatibility.

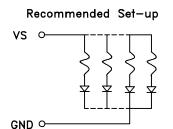
CLEANING

1.Mild "no-clean" fluxes are recommended for use in soldering.

2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

CIRCUIT DESIGN NOTES

1.Protective current-limiting resistors may be necessary to operate the Displays.2.LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.



invalid Set—up

