

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
TBC40-12EGWA	High Efficiency Red (GaAsP/GaP)	WHITE DIFFUSED	8000	33000	Column Cathode
	Green (GaP)		12000	42000	

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	High Efficiency Red Green	627 565		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	High Efficiency Red Green	625 568		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	I _F =20mA
C	Capacitance	High Efficiency Red Green	15 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage (Per Dot)	High Efficiency Red Green	4.0 4.4	5.0 5.0	V	I _F =20mA
I _R	Reverse Current (Per Dot)	High Efficiency Red Green		10 10	uA	V _R =10V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

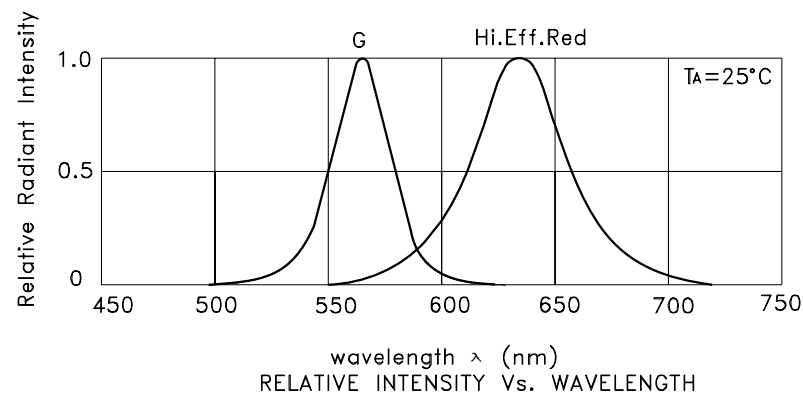
Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Green	Units
Power dissipation (Per Dot)	150	125	mW
DC Forward Current (Per Dot)	30	25	mA
Peak Forward Current [1] (Per Dot)	160	140	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		

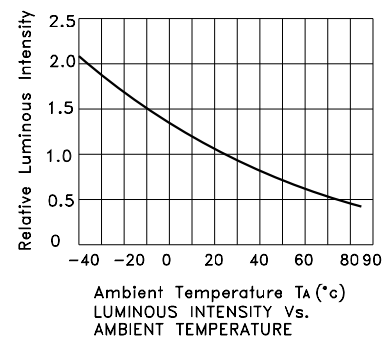
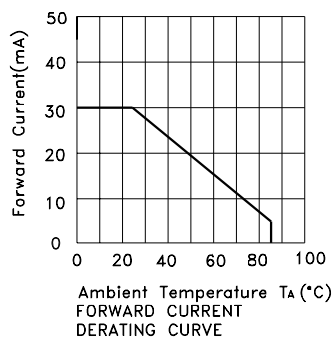
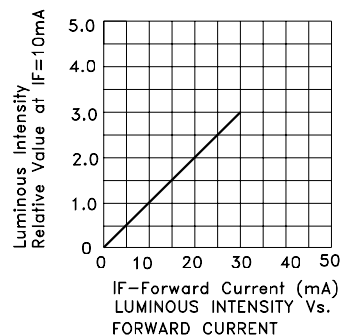
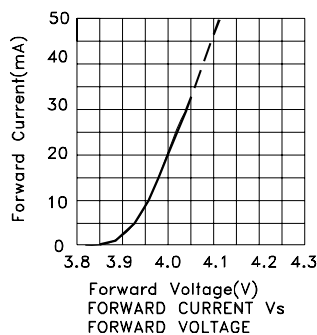
Notes:

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

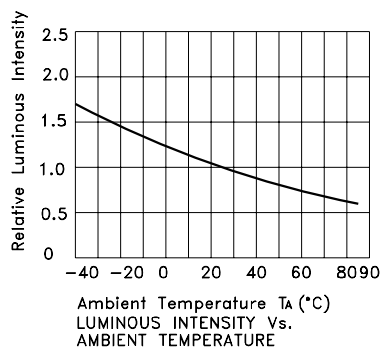
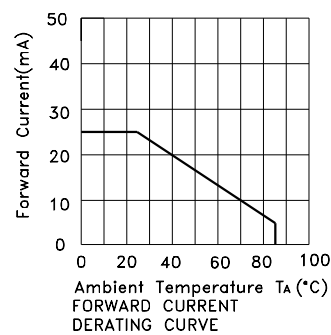
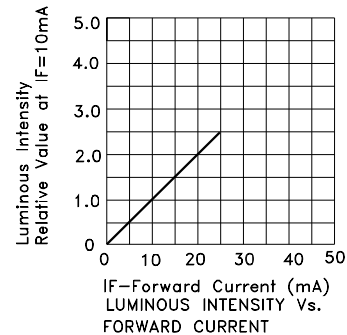
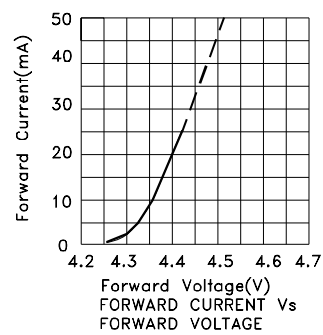
2. 2mm below package base.



TBC40-12EGWA
High Efficiency Red

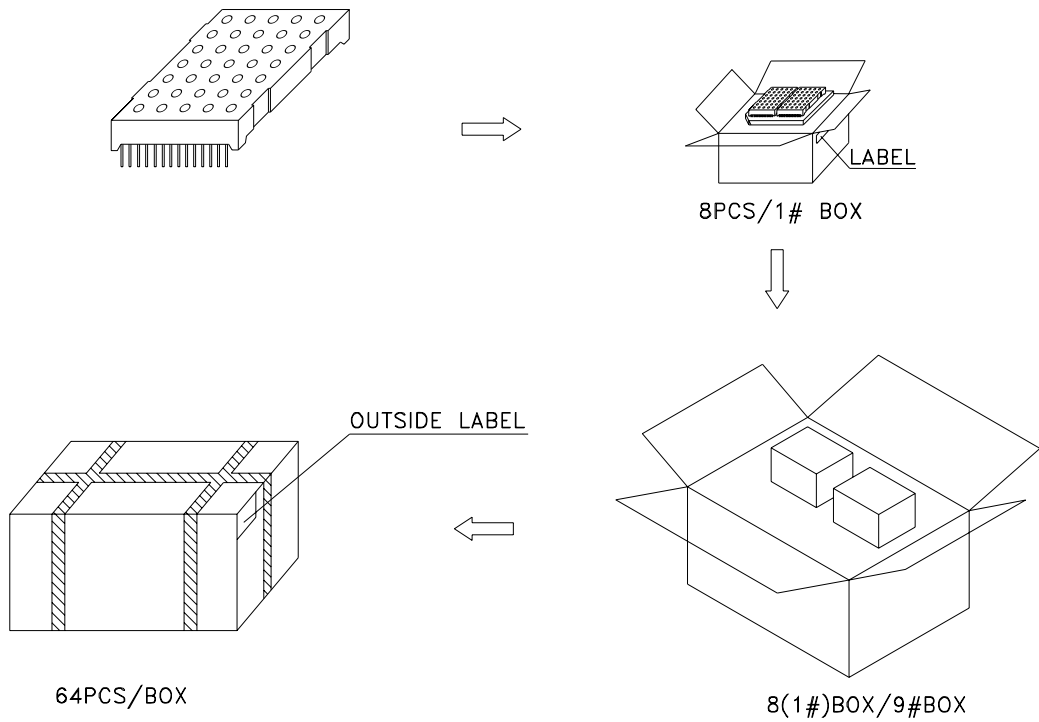


Green



PACKING & LABEL SPECIFICATIONS

TBC40-12EGWA



Inside LABEL Paste On The 1#BOX

Kingbright	TYPE:TBX40-12XXX	PASSED xx xx xx FQCX
QTY:8 PCS	CODE: xx	
xxxxxxxxxxxx-xxxx RoHs Compliant		Date Number OF FQC
LOT NO.		

Outside LABEL Paste On The Box

BOX Number	xxxx	xxxx
TBX40-12XXX	64	PCS
QAx xx xx xx PASSED		
RoHs Compliant		

Number OF QA

Date