

MTB10631–GYHR

Features

Solid state reliability
 Hi–efficiency red and green
 Grey surface/white epoxy

Maximum Ratings (Ta=25°C)

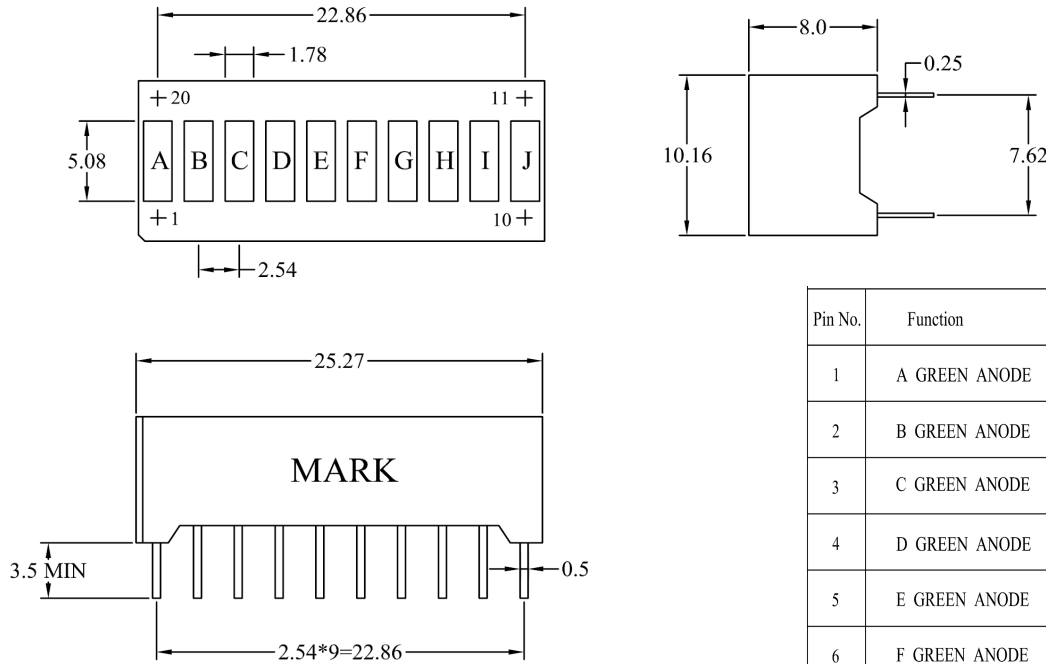
Characteristic	Symbol	Max.			Unit
		YG	YL	HR	
Forward Current	I _F	30	30	30	mA
Reverse Voltage	V _R	5	5	5	V
Operating Temperature	T _{opr}	-25 ~ +85	-25 ~ +85	-25 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	-40 ~ +100	-40 ~ +100	°C
Soldering Temperature	T _{sol}	260	260	260	°C
Soldering Time	–	for 5 sec. max	for 5 sec. max	for 5 sec. max	–

Opto–Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min			Typ			Max			Unit
			YG	YL	HR	YG	YL	HR	YG	YL	HR	
Forward Voltage	V _F	I _F =20mA	–	–	–	2.10	2.10	2.10	2.60	2.60	2.60	V
Reverse Current	I _R	V _R =5V	–	–	–	–	–	–	100	100	100	μ A
Luminous Intensity	I _v	I _F =10mA	1.40	1.10	1.60	3.40	2.80	3.90	–	–	–	mcd
Peak Wavelength	λ _p	I _F =20mA	–	–	–	567	585	635	–	–	–	nm
Dominant Wavelength	λ _d	I _F =20mA	–	–	–	573	580	625	–	–	–	nm
Spectral Line Half Width	Δλ	I _F =20mA	–	–	–	30	32	20	–	–	–	nm

MTB10631-GYHR Package

Package Dimensions

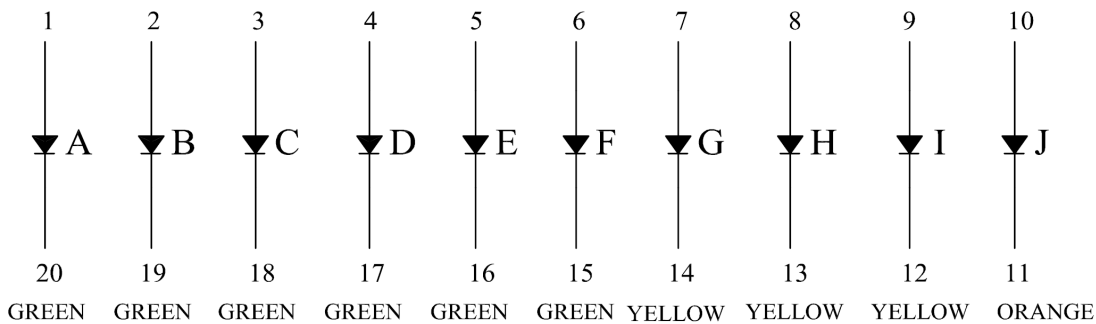


Pin No.	Function	Pin No.	Function
1	A GREEN ANODE	11	J RED CATHODE
2	B GREEN ANODE	12	I YELLOW CATHODE
3	C GREEN ANODE	13	H YELLOW CATHODE
4	D GREEN ANODE	14	G YELLOW CATHODE
5	E GREEN ANODE	15	F GREEN CATHODE
6	F GREEN ANODE	16	E GREEN CATHODE
7	G YELLOW ANODE	17	D GREEN CATHODE
8	H YELLOW ANODE	18	C GREEN CATHODE
9	I YELLOW ANODE	19	B GREEN CATHODE
10	J RED ANODE	20	A GREEN CATHODE

1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS ± 0.25 mm UNLESS OTHERWISE NOTED.
 2. THE SLOPE ANGLE OF ANY PIN MAY BE $\pm 5.0^\circ$ MAX.

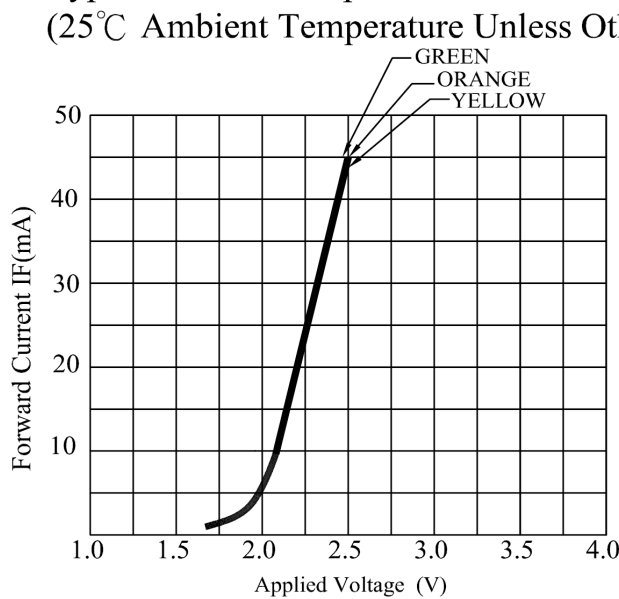
Internal Circuit Diagram

LL10631-GYO EWAK

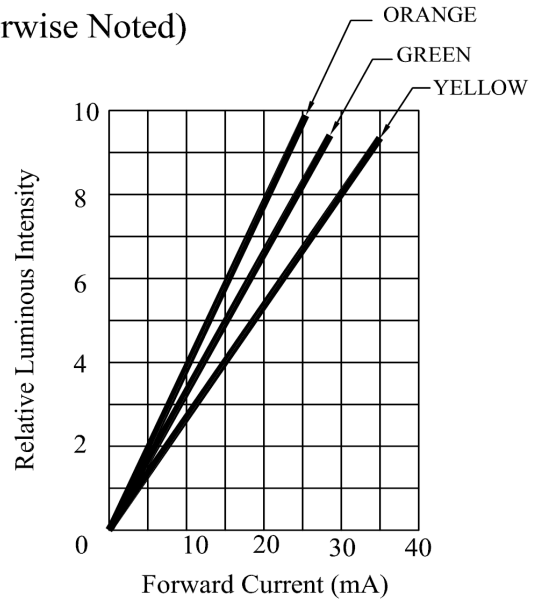


MTB10631-GYHR Graphs

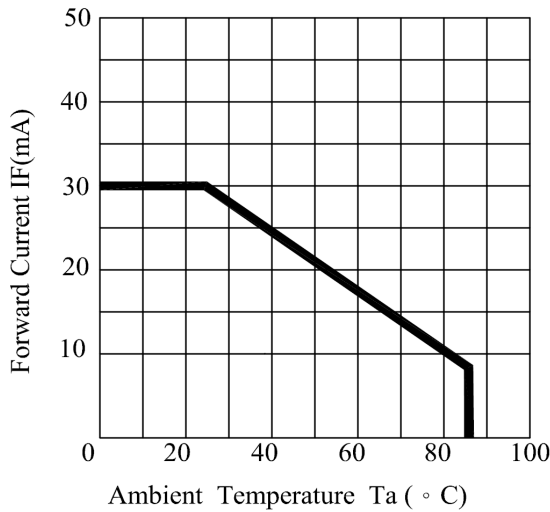
Typical Electrical/Optical Characteristic Curves
(25°C Ambient Temperature Unless Otherwise Noted)



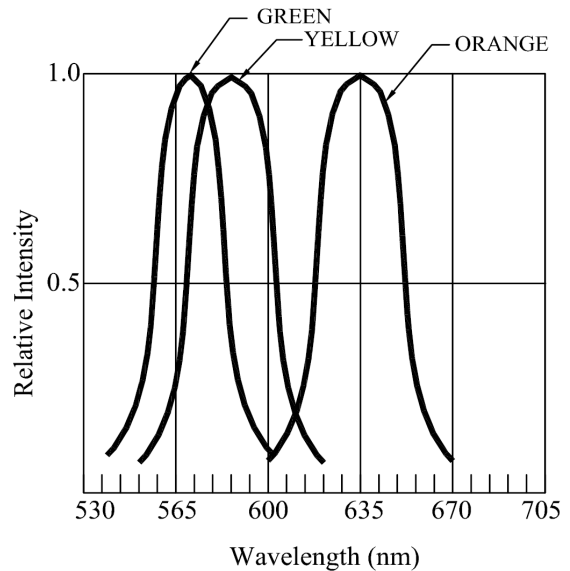
FORWARD CURRENT VS. APPLIED VOLTAGE



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH