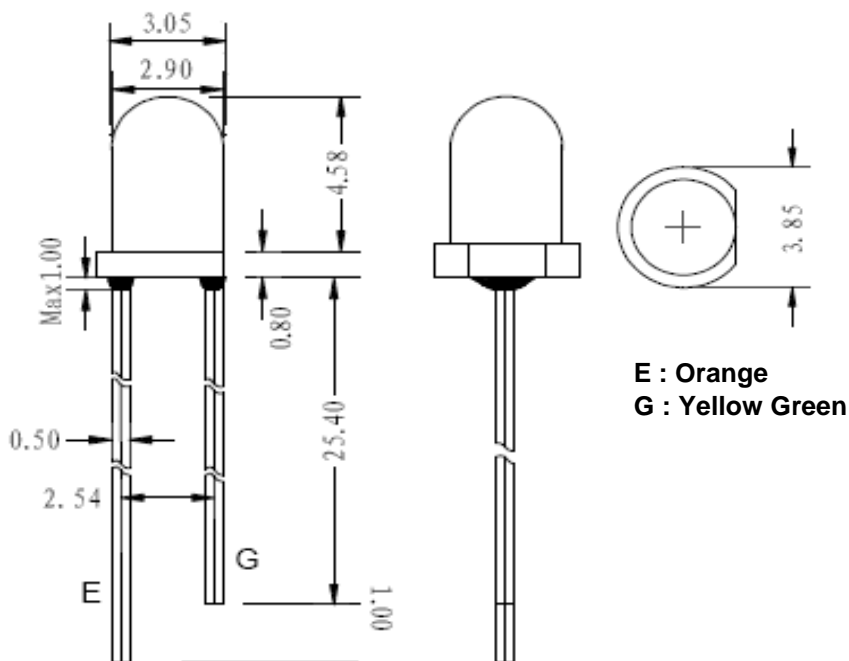




Applications

- Electronic Signs and Signals
- Small Area Illuminations
- Back Lighting
- Other Lighting

Technical Drawing



Notes :

All dimensions in mm tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.

Round LED	
Orange	Yellow Green
Part No.:	M13H8001
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	04.12.2009
APPD:	Xie			FINISH	Wang	Sheet	1 from 6



Absolute Maximum Ratings

Ta=25°C

Item	Symbol	GaP	GaP	Unit
Power Dissipation	P _D	50		mW
DC Forward Current	I _F	20		mA
Plused Forward Current	I _{FP} *	100		mA
Reverse Voltage	V _R	5		V
Operating Temperature	T _{OP}	-30 to 80		°C
Storage Temperature	T _{ST}	-40 to 100		°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color Material	Orange		Yellow Green	
		GaP		GaP
Forward Voltage	typ.	1.9	2.3	V _F
	max.	2.3	2.5	V _F
Wavelength typ.	λ _D	615 ~ 630	563 ~ 568	nm
	λ _P	617 ~ 622	567 ~ 572	nm
	Δλ	10 ~ 15	15 ~ 20	nm
Color Temperature	min.	---	---	K
	max.	---	---	K
Luminous Intensity *	min.	---	---	mcd
	typ.	30	25	mcd
Reverse Current	max.	50		μA
Viewing Angle	2Θ1/2	160		

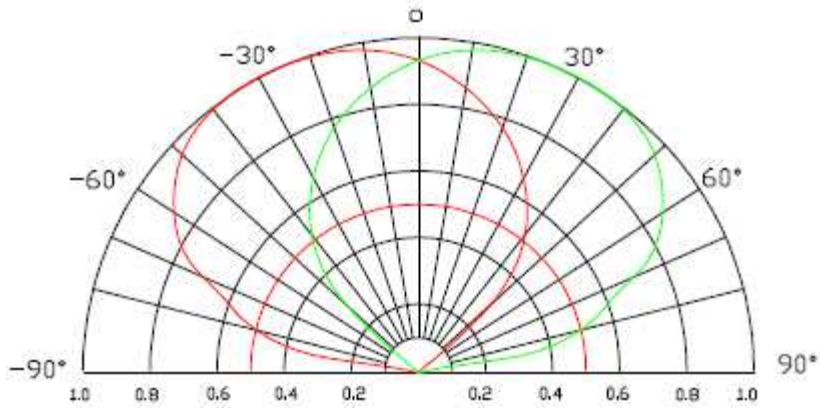
* Per NIST standards

Round LED	
Orange	Yellow Green
Part No.:	M13H8001
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	04.12.2009
APPD:	Xie			FINISH	Wang	Sheet	2 from 6



Directive Characteristics



Round LED Orange Yellow Green	
Part No.:	M13H8001
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	04.12.2009
APPD:	Xie			FINISH	Wang	Sheet	3 from 6



Curve

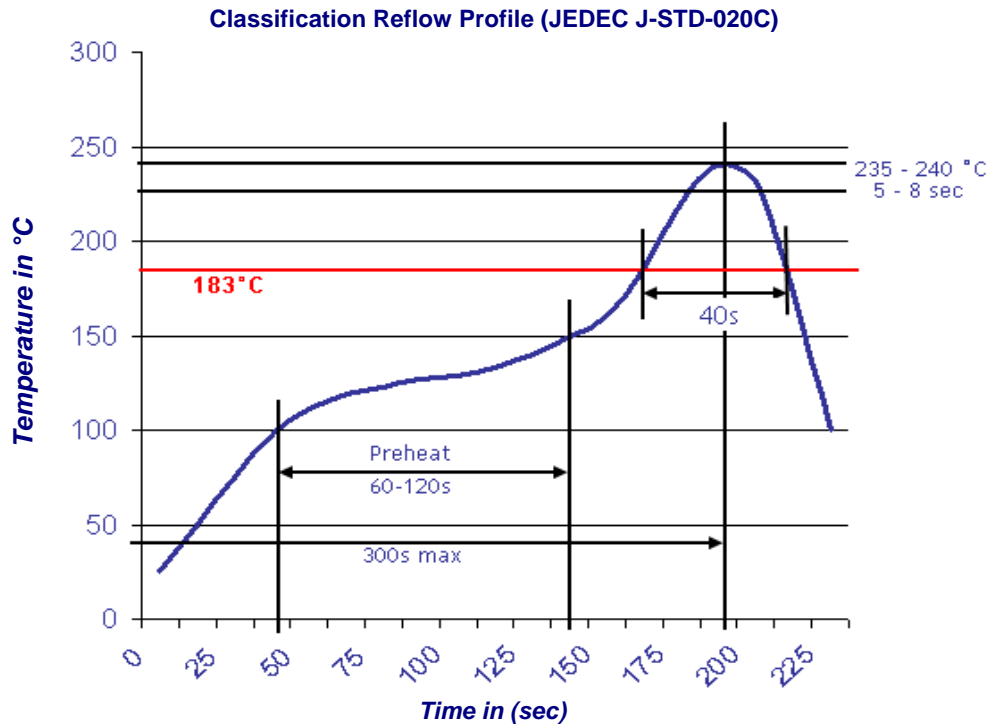
Round LED Orange Yellow Green	
Part No.:	M13H8001
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	04.12.2009
APPD:	Xie			FINISH	Wang	Sheet	4 from 6



Solder Condition

Lead Free Solder

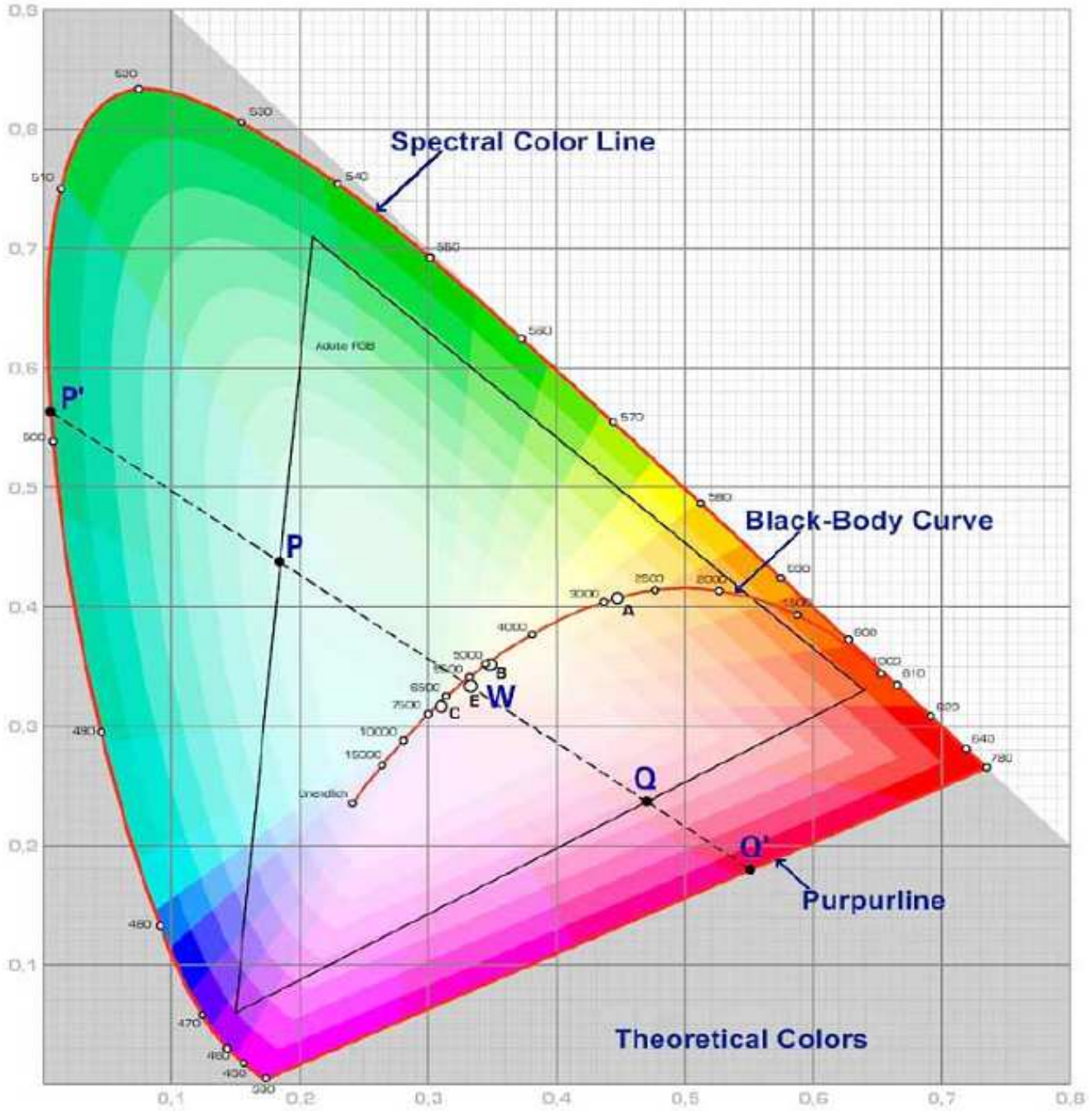


Round LED	
Orange	Yellow Green
Part No.:	M13H8001
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	04.12.2009
APPD:	Xie			FINISH	Wang	Sheet	5 from 6



Color table curve



Round LED	
Orange	Yellow Green
Part No.:	M13H8001
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	04.12.2009
APPD:	Xie			FINISH	Wang	Sheet	6 from 6