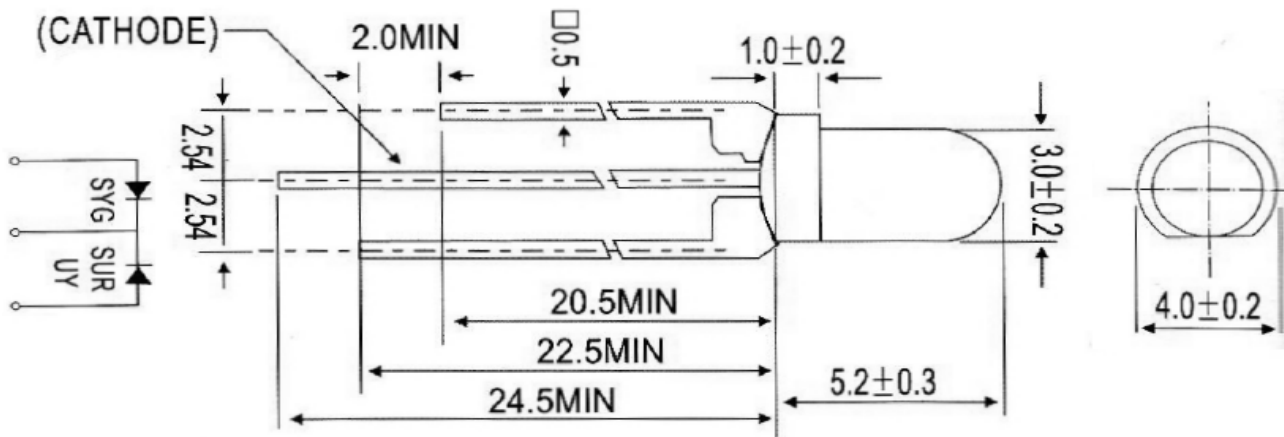




Applications

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

Technical Drawing



Notes :

All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.

Round LED	
Red	Blue
Part No.:	M13G9005
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	01.07.2010
APPD:	Xie			FINISH	Wang	Sheet	1 from 6



Absolute Maximum Ratings

Item	Symbol	---	---	Unit
Power Dissipation	P _D		78	mW
DC Forward Current	I _F		30	mA
Pulsed Forward Current	I _{FP} *		100	mA
Reverse Voltage	V _R		5	V
Operating Temperature	T _{OP}		-30 to 85	°C
Storage Temperature	T _{ST}		-40 to 100	°C

* 0.1 msec pulse, 10% duty cycle

Electrical / Optical Characteristics

Emitting Color	Red		Blue	
	---		---	
Material	---		---	
Forward Voltage	typ.	2.1	3.1	V _F
	max.	2.6	3.6	V _F
Wavelength typ.	λ _D	620	465	nm
	λ _P	625	470	nm
	Δλ	---	---	nm
Color Temperature	min.	---	---	K
	max.	---	---	K
Luminous Intensity *	min.	5800	2180	mcd
	typ.	6500	3000	mcd
Reverse Current	max.		10	μA
Viewing Angle	2Θ1/2		30	

* Per NIST standards

Round LED	
Red	Blue
Part No.:	M13G9005
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	01.07.2010
APPD:	Xie			FINISH	Wang	Sheet	2 from 6



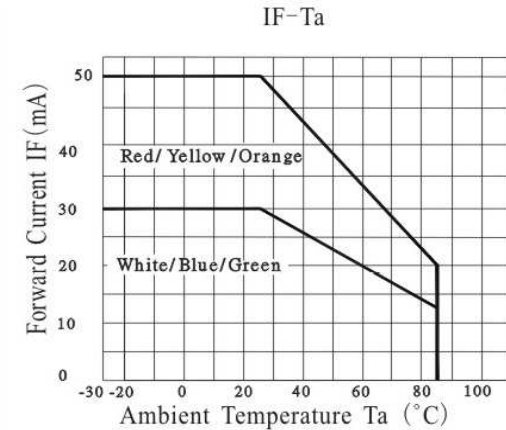
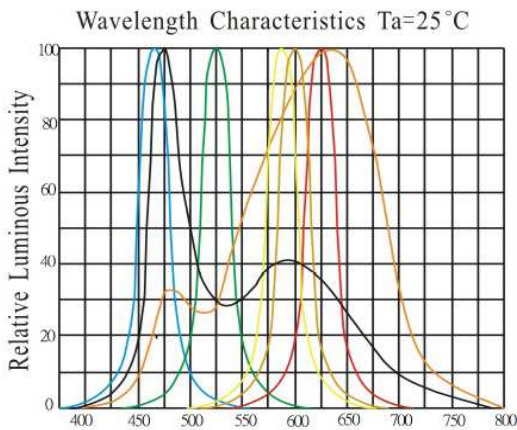
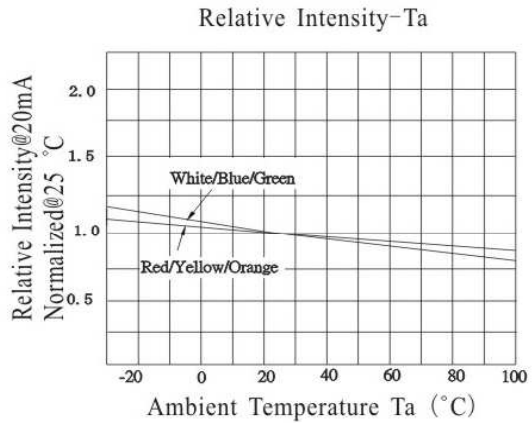
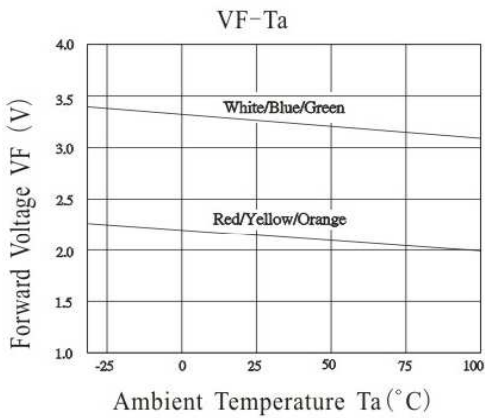
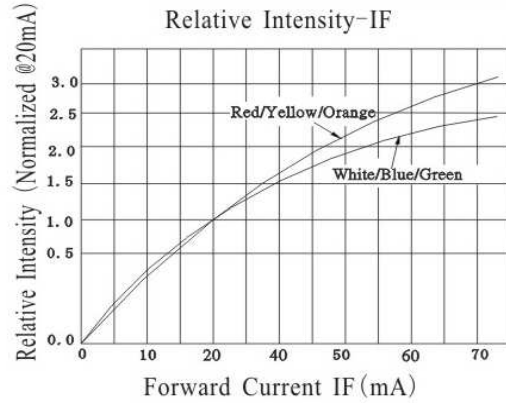
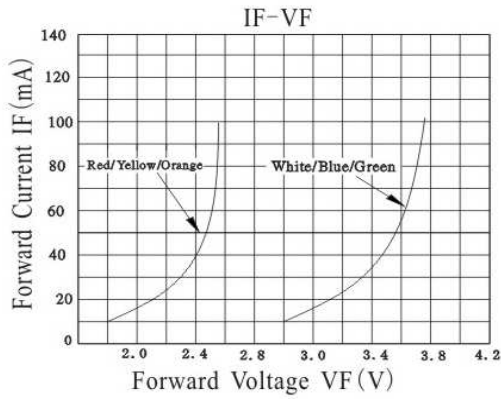
Directive Characteristics

Round LED	
<i>Red</i>	<i>Blue</i>
Part No.:	M13G9005
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	01.07.2010
APPD:	Xie			FINISH	Wang	Sheet	3 from 6



Typical Characteristics



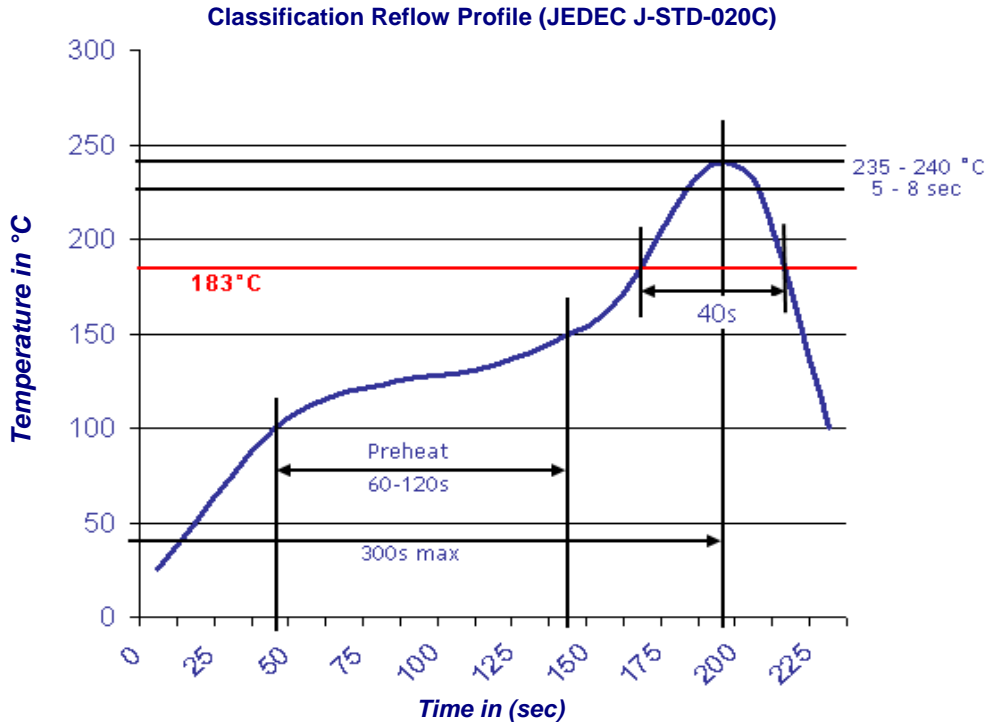
Round LED	
Red	Blue
Part No.:	M13G9005
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	01.07.2010
APPD:	Xie			FINISH	Wang	Sheet	4 from 6



Solder Condition

Lead Free Solder

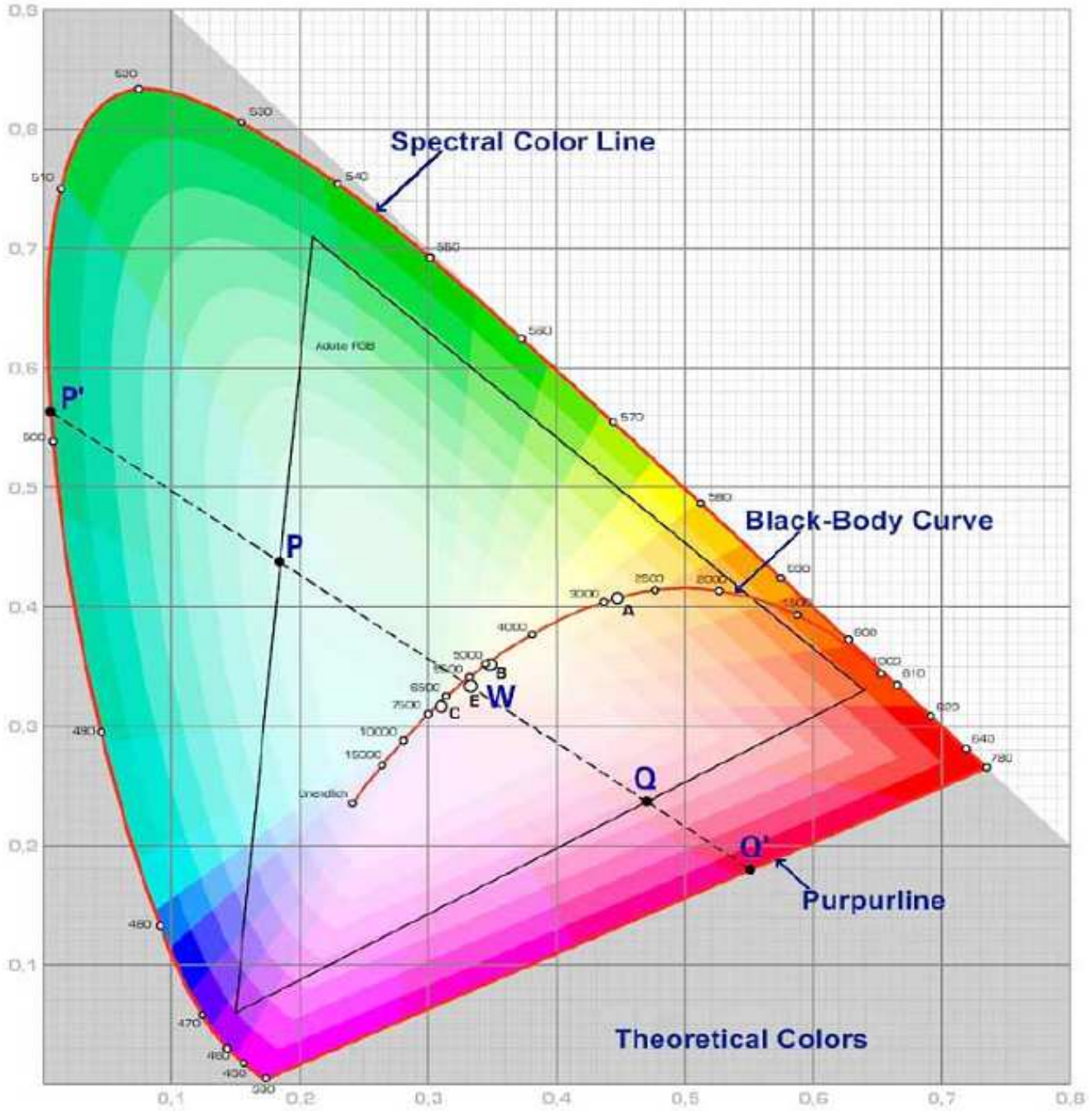


Round LED	
Red	Blue
Part No.:	M13G9005
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	01.07.2010
APPD:	Xie			FINISH	Wang	Sheet	5 from 6



Color table curve



Round LED	
<i>Red</i>	<i>Blue</i>
Part No.:	M13G9005
Customer:	

DRW:	Ron	CHKD	Lang	MATL:	Chang	DATE	01.07.2010
APPD:	Xie			FINISH	Wang	Sheet	6 from 6