



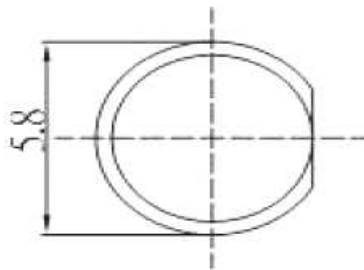
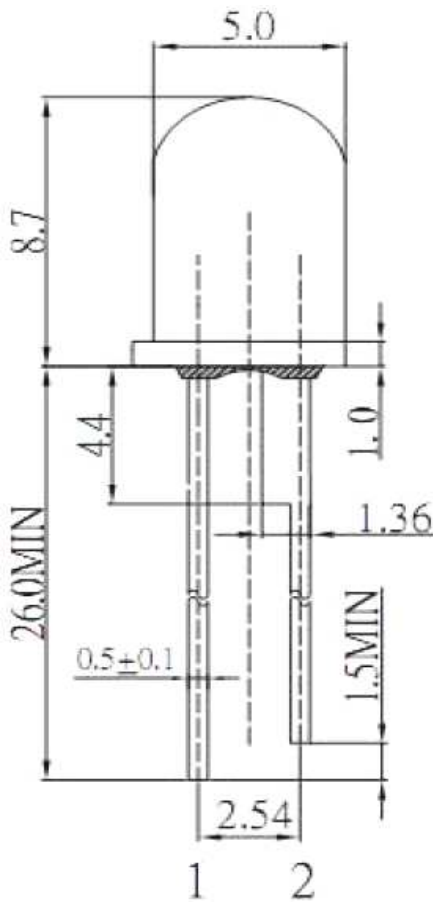
Features

High Luminous LED's
 5mm Round Standard Directivity
 Long Lif Time Operation (Up to 100.000hours)
 Superior weather-resistance
 UV Resistant Epoxy
 Water Clear Type

Applications

Electronic Sign and Signals
 Small Area Illuminations
 Back Lighting
 Other Lighting

Technical Drawing



1 : Anode
 2 : Cathode
 Unit: mm
 Tolerance: ± 0,3mm

Notes :

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

Round LED White	
Part No.:	M13A3028
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	20.03.2011
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Absolute Maximum Ratings

Item	Symbol	Value	Unit
DC Forward Current	I_F	30	mA
Pulse Forward Current *	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	108	mW
Operating Temperature	T_{opr}	. -30 ~ +85	°C
Storage Temperature	T_{stG}	. -40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C / 5sec.	--

* Pulse width max. 10ms, Duty ratio max. 1/10

Electrical / Optical Characteristics (Ta=25°C)

Item	Symbol	Condition	Min	Typ.	Max.	Unit
DC Forward Voltage	V_F	$I_F=20mA$	2,9	3,1	3,6	V
DC Reverse Voltage	I_R	$V_R=5V$	--	--	10	µA
Luminous Intensity*	I_V	$I_F=20mA$	35000	40000	--	mcd
Chromaticity	x	$I_F=20mA$	--	0,27	--	
Coordinates	y	$I_F=20mA$	--	0,28	--	
50% Power Angle	20 1/2	$I_F=20mA$	--	15	--	deg

*1 Tolerance of chromaticity coordinates is ±10%

*2 Tolerance of luminous intensity is ±15%

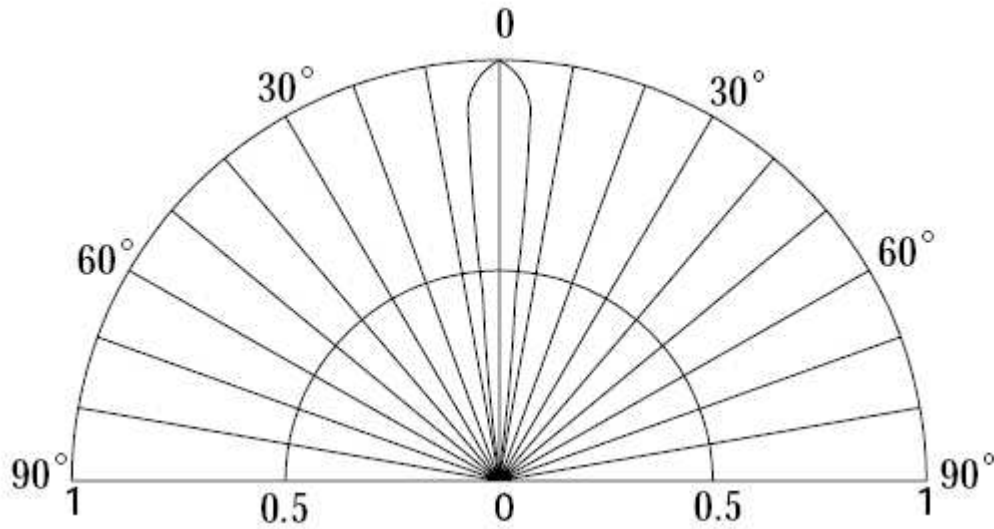
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Directive Characteristics

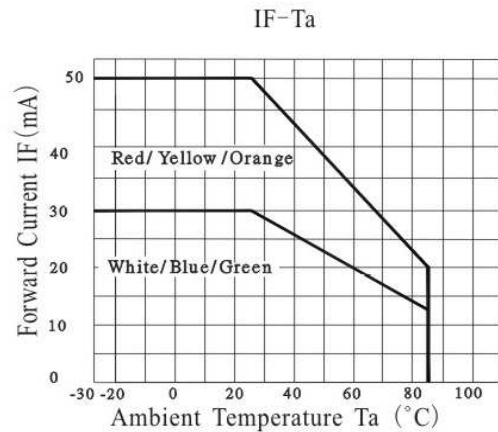
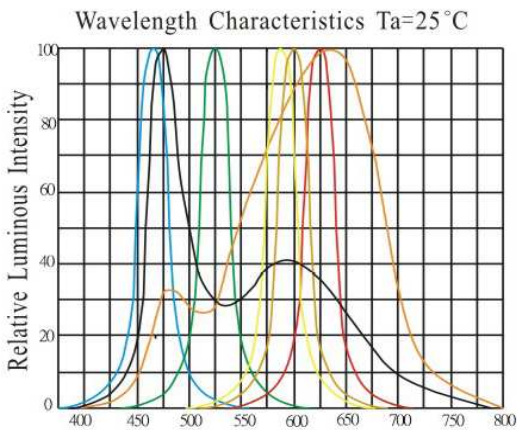
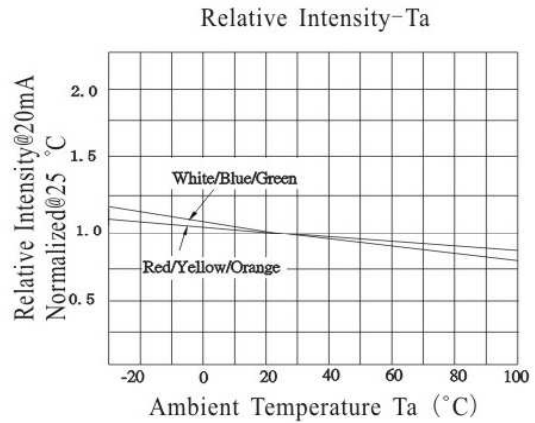
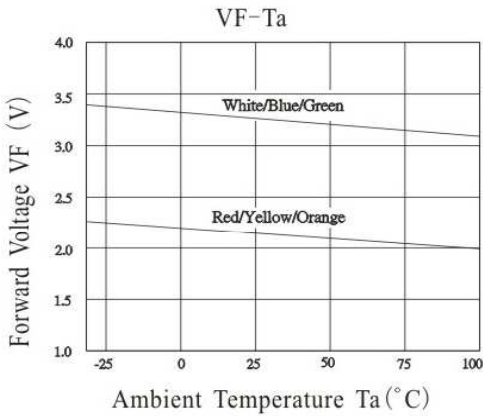
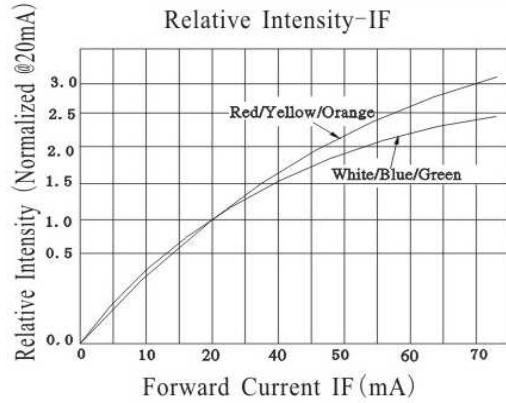
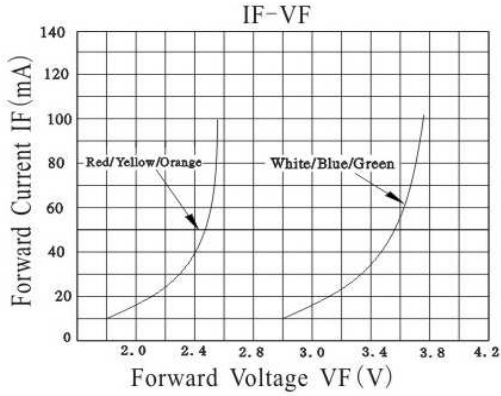


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Typical Characteristics



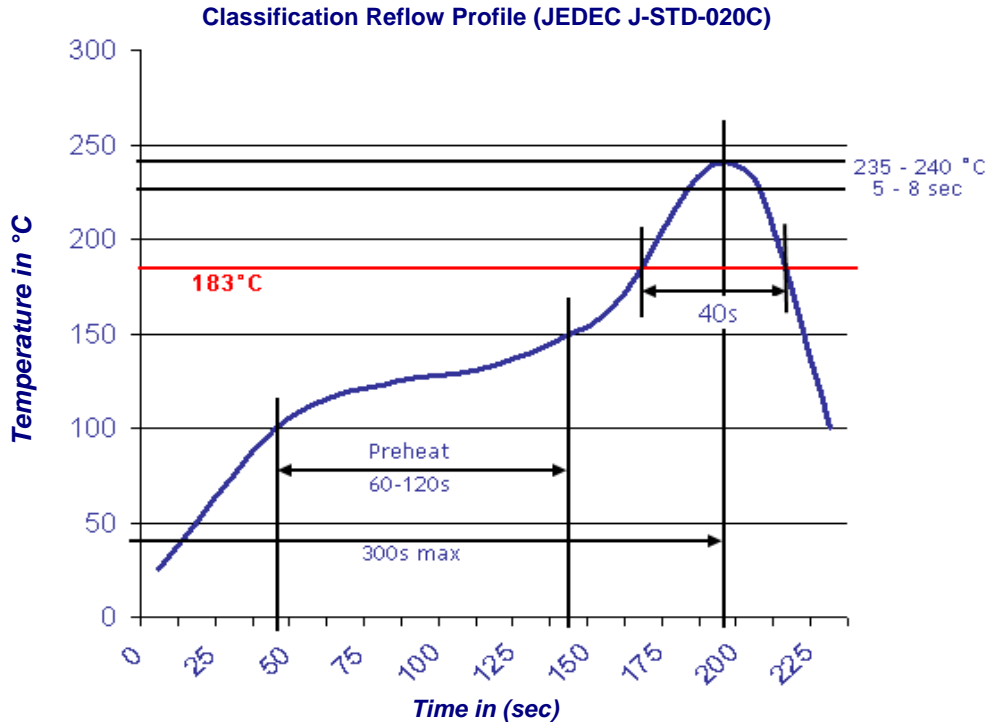
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Solder Condition

Lead Free Solder

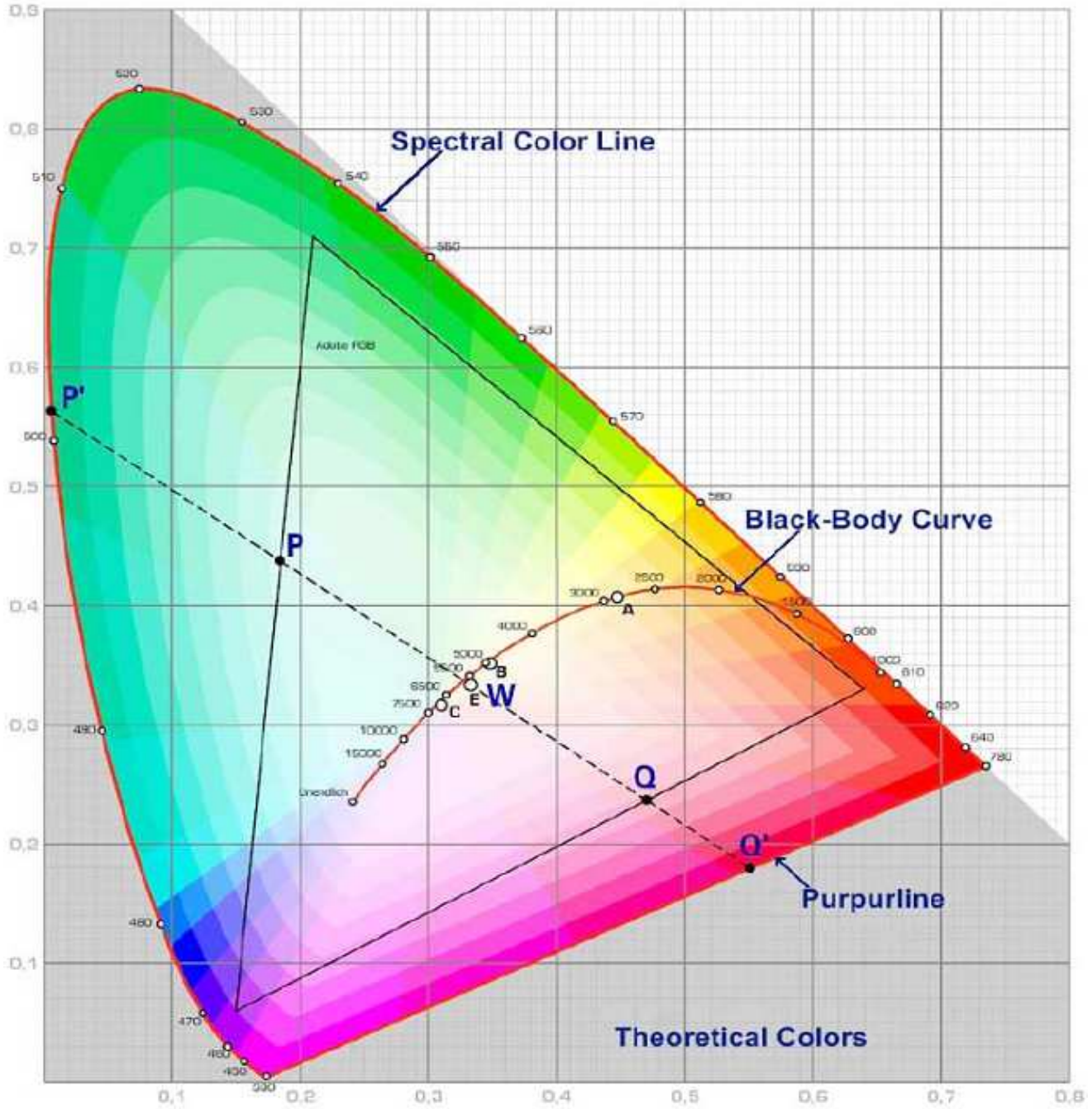


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Color table curve



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