





**Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	GaP	GaP	Unit
Power Dissipation	P <sub>D</sub>	---	---	mW
DC Forward Current	I <sub>F</sub>	20	---	mA
Pulsed Forward Current	I <sub>FP</sub> *	---	---	mA
Reverse Voltage	V <sub>R</sub>	---	---	V
Operating Temperature	T <sub>OP</sub>	---	---	°C
Storage Temperature	T <sub>ST</sub>	-55 to 100	---	°C

\* 0.1 msec pulse, 10% duty cycle

**Electrical / Optical Characteristics**

I<sub>F</sub>=20mA Ta=25°C

Emitting Color Material	Green		Red	
		GaP		GaP
Forward Voltage	typ.	2.1	2.1	V <sub>F</sub>
	max.	2.8	2.8	V <sub>F</sub>
Wavelength typ.	λ <sub>D</sub>	565	697	nm
	λ <sub>P</sub>	---	---	nm
	Δλ	---	---	nm
Color Temperature	min.	---	---	K
	max.	---	---	K
Luminous Intensity *	min.	2.0	1.5	mcd
	typ.	3.5	2.5	mcd
Reverse Current	max.	---	---	μA
Viewing Angle	2Θ1/2	142		

\* Per NIST standards

<b>SMT Top View LED</b>	
<b>Green</b>	<b>Red</b>
Part No.:	<b>M13H1001</b>
Customer:	

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



**Directive Characteristics**

<b><i>SMT Top View LED</i></b> <b><i>Green</i></b> <span style="float: right;"><b><i>Red</i></b></span>	
Part No.:	<b>M13H1001</b>
Customer:	

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



**Curve**

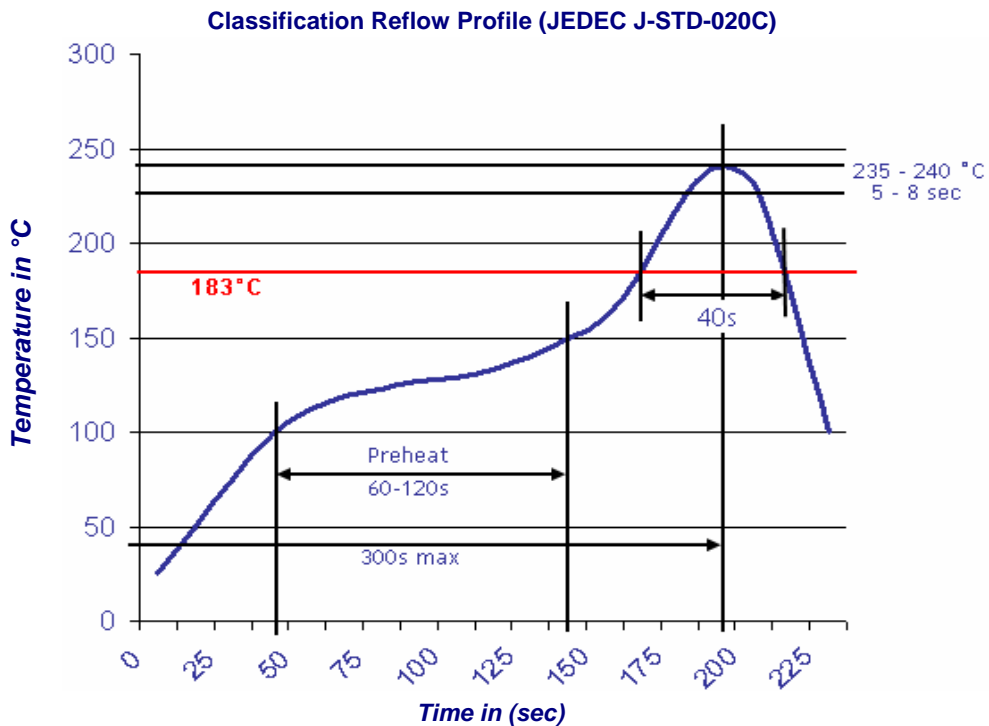
<b><i>SMT Top View LED</i></b> <b><i>Green</i></b> <span style="float: right;"><b><i>Red</i></b></span>	
Part No.:	<b>M13H1001</b>
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APPD:	Xie			FINISH	Wang	Sheet	4 from 6



**Solder Condition**

**Lead Free Solder**

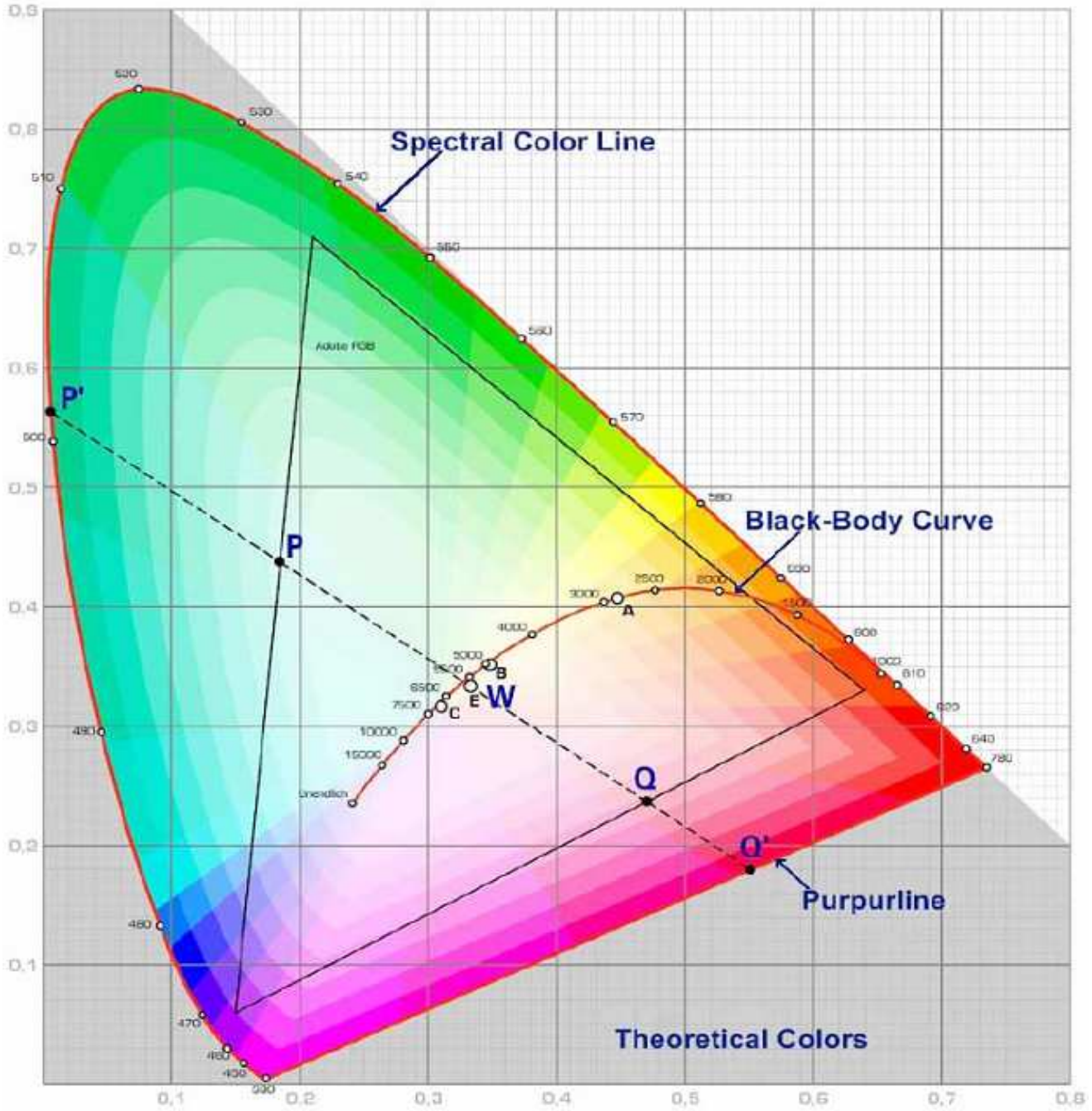


<b>SMT Top View LED</b>	
<b>Green</b>	<b>Red</b>
Part No.:	<b>M13H1001</b>
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**Color table curve**



<b>SMT Top View LED</b>	
<b>Green</b>	<b>Red</b>
Part No.:	<b>M13H1001</b>
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