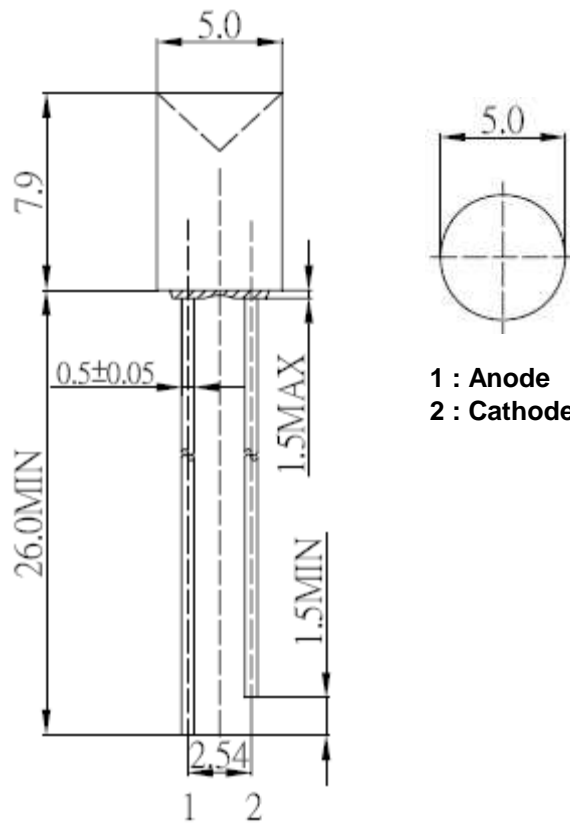




**Applications**

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

**Technical Drawing**



1 : Anode  
 2 : Cathode

**Notes :**

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

<b>Concave LED</b> <b>Red</b>	
Part No.:	<b>M13F6003</b>
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	07.12.2009
APPD:	Ping			FINISH	Hui	Sheet	1 from 6



**Absolute Maximum Ratings**

Ta=25°C

<i>Item</i>	<i>Symbol</i>	<i>---</i>	<i>Unit</i>
Power Dissipation	P <sub>D</sub>	130	mW
DC Forward Current	I <sub>F</sub>	50	mA
Pulsed Forward Current	I <sub>FP</sub> *	120	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-40 to 85	°C
Storage Temperature	T <sub>ST</sub>	-40 to 100	°C

\* 0.1 msec pulse, 10% duty cycle

**Electrical / Optical Characteristics**

I<sub>F</sub>=20mA Ta=25°C

<b>Emitting Color</b>	Red		
<b>Material</b>	---		
<b>Forward Voltage</b>	typ.	2.1	V <sub>F</sub>
	max.	2.6	V <sub>F</sub>
<b>Wavelength</b> typ.	λ <sub>D</sub>	620	nm
	λ <sub>P</sub>	625	nm
	Δλ	---	nm
<b>Color Temperature</b>	min.	---	K
	max.	---	K
<b>Luminous Intensity *</b>	min.	150	mcd
	typ.	250	mcd
<b>Reverse Current</b>	max.	10	μA
<b>Viewing Angle</b>	2Θ1/2	120	

\* Per NIST standards

**Concave LED**  
**Red**

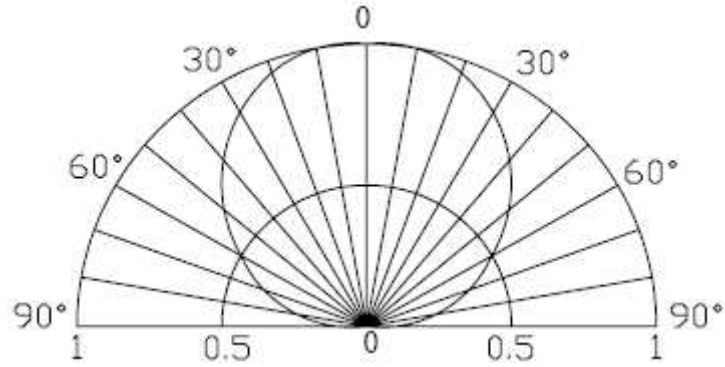
Part No.: **M13F6003**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	07.12.2009
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**Directive Characteristics**



<b>Concave LED Red</b>	
Part No.:	<b>M13F6003</b>
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	07.12.2009
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**Typical Characteristics**



**Concave LED**  
**Red**

Part No.: **M13F6003**

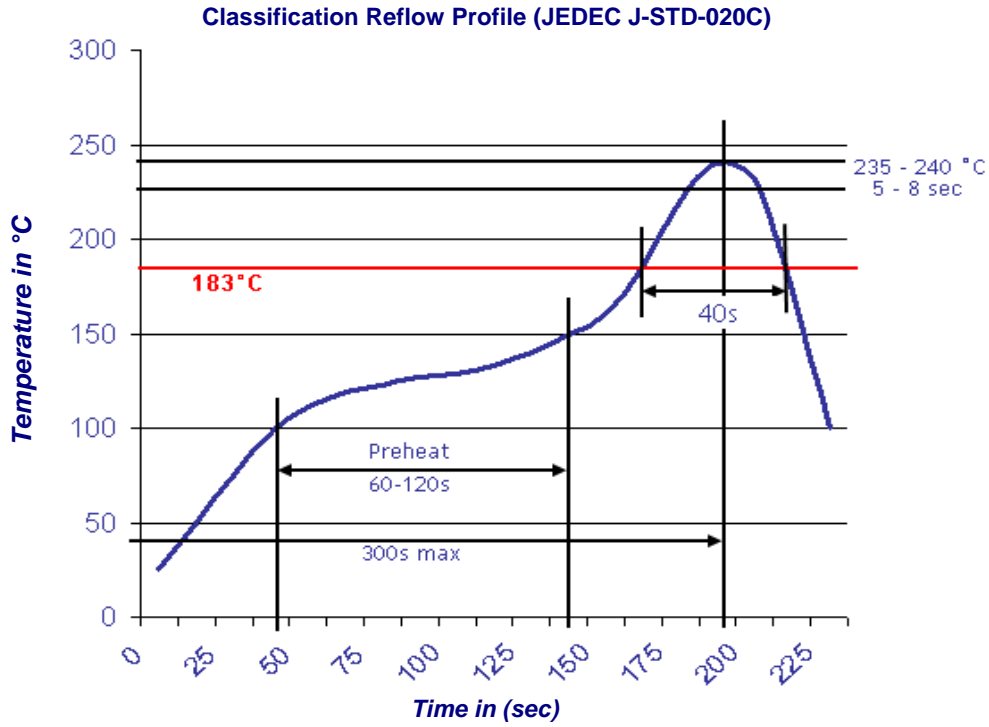
Customer:

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**Solder Condition**

**Lead Free Solder**



<b>Concave LED Red</b>	
Part No.:	<b>M13F6003</b>
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	07.12.2009
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**Color table curve**



<b>Concave LED Red</b>	
Part No.:	<b>M13F6003</b>
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	07.12.2009
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