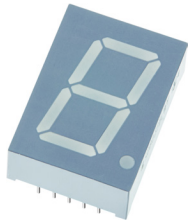


# 20.3mm (0.8") Single Digit Common Cathode LED Display



## Specifications

Dice Material	: GaAlAs
Peak Wave Length	: 660 nm
Emitted Colour	: Super Red
Lens Colour	: White Diffused
IV(mcd)	: 4.2
Surface Ink Colour	: Black

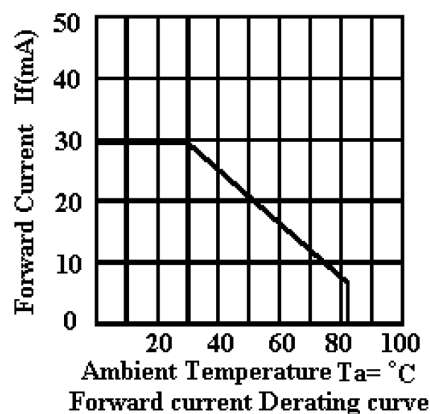
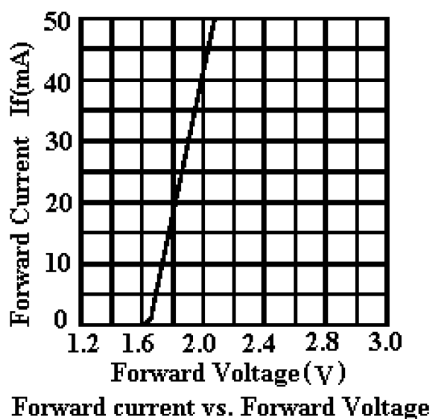
## Electrical / Optical Characteristics at T<sub>A</sub> = 25°C

Parameter	Symbol	Min	Typ	Max	Unit	Test
Luminous Intensity	IV	2.1	4.2	6.5	mcd	IF = 20mA
Viewing Angle	2Θ1/2	-	-	-	deg	
Peak Emission Wavelength	λ <sub>p</sub>	-	660	-	nm	
Dominant Wavelength	λ <sub>D</sub>	-	643	-	nm	
Spectral Line Half-Width	Δλ	-	20	-	nm	
Forward Voltage	V <sub>F</sub>	1.7	1.8	2.5	V	
Power Dissipation	P <sub>d</sub>	-	-	85	mW	
Peak Forward Current (Duty 1/10 @ 1kHz)	I <sub>F</sub> (Peak)	-	-	100	mA	
Recommended Operating Current	T <sub>F</sub> (Rec)	-	20	-	mA	

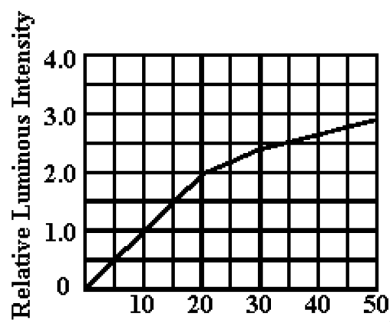
## Absolute Maximum Rating T<sub>A</sub> = 25°C

Reverse Voltage	5 Volt
Reverse Current	10μA (V <sub>R</sub> =5V)
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +100°C
Lead Soldering Temperature Range (1.6mm (1/16 inch) from body)	260°C For 5 Seconds

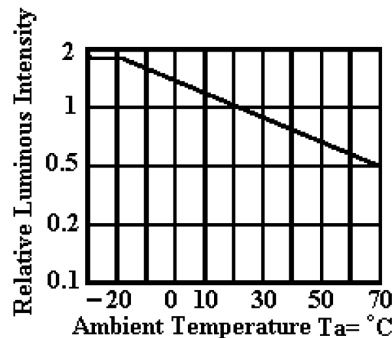
## Typical Electro-Optical Characteristics Curves



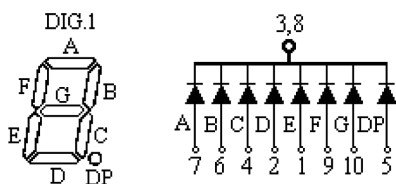
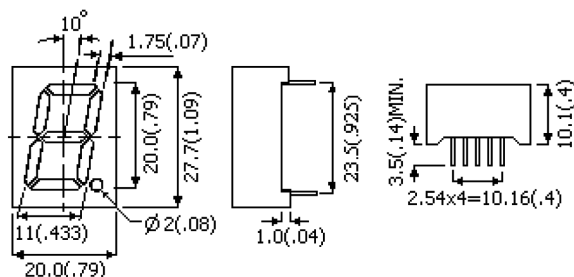
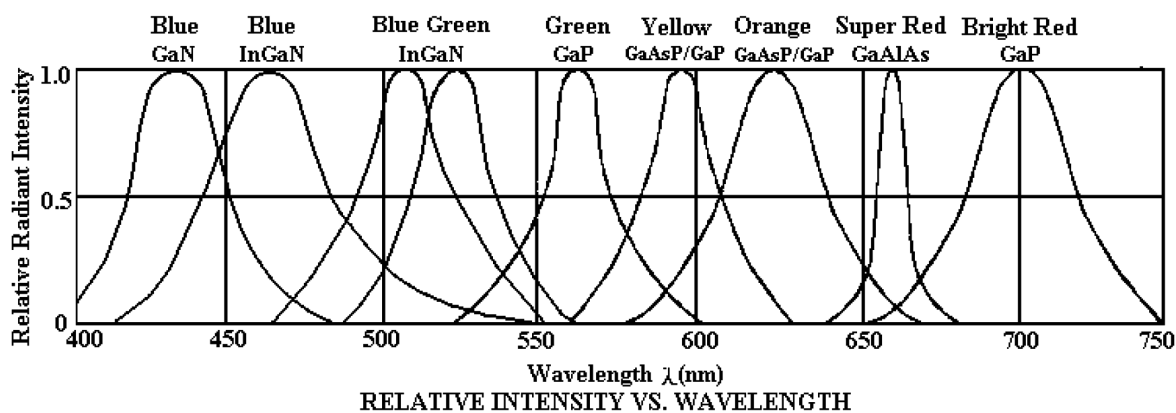
# 20.3mm (0.8") Single Digit Common Cathode LED Display



Forward current (mA)  $T_a=25^{\circ}\text{C}$   
Luminous Intensity vs. Forward current



Ambient Temperature  $T_a=^{\circ}\text{C}$   
Luminous Intensity vs. Ambient Temperature



Dimensions : Millimetres  
Tolerance :  $\pm 0.25\text{mm}$

## Part Number Table

Description	Part Number
20.3mm (0.8") Single Digit Common Cathode LED Display, Super Red	LS0803SRWK

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