

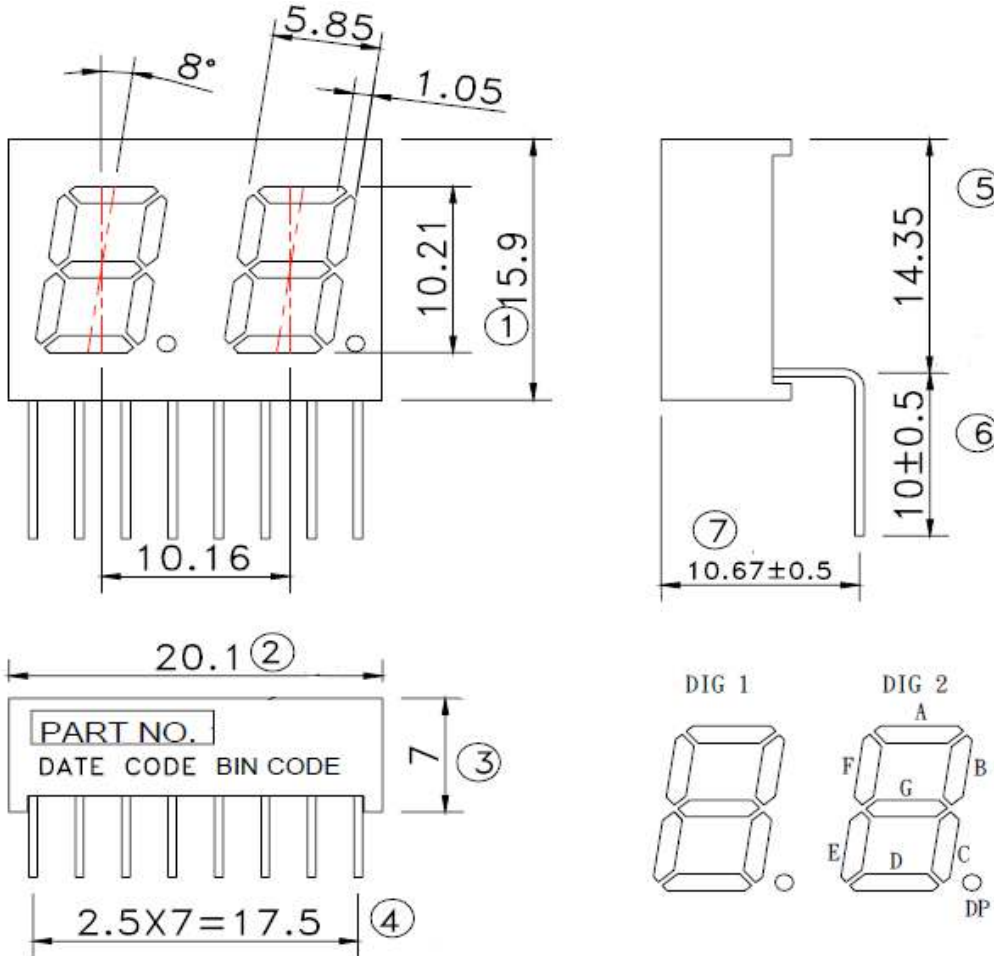


American Opto Plus LED Corp.

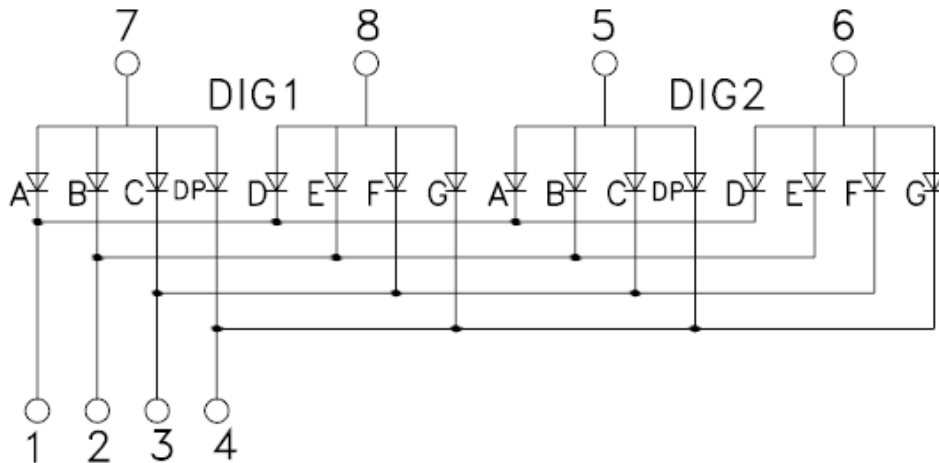
0.40" SMD Type LED Display

A402SR-10.7LF G/W

MECHANICAL DIMENSIONS



TYPICAL INTERNAL EQUIVALENT CIRCUIT



Note: Tolerances $\pm 0.25\text{mm}$



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ABSOLUTE MAXIMUM RATING AT Ta=25°C

Parameter	Symbol	Red	Unit
Power dissipation	P_{AD}	60	mW
Peak current (duty cycle 1/10, 1kHz)	I_{PF}	100	mA
Forward current	I_{AF}	25	mA
Derating Liner from 25°C	-	0.33	mA/°C
Reverse voltage	V_R	5	V
Operating temperature	T_{OPR}	-35 ~ +80	°C
Storage temperature	T_{STG}	-35 ~ +80	°C

Solder Temperature 1/16inch Below Seating Plane for 3 Seconds at 260°C

ELECTRICAL - OPTICAL CHARACTERISTICS AT Ta=25°C

Characteristic	Symbol	Min.	Type	Max.	Unit	Condition
Luminous Intensity	I_v	2	4.2	-	mcd	$I_F = 10mA$
Peak Wavelength	λ_P	-	660	-	nm	$I_F = 20mA$
Dominant Wavelength	λ_d	-	643	-	nm	$I_F = 20mA$
Spectral Line Half-width	$\Delta\lambda$	-	20	-	nm	$I_F = 20mA$
Forward Voltage	V_F	-	1.85	2.4	V	$I_F = 20mA$
Reverse Current	I_R	-	-	20	μA	$V_R = 5V$
Luminous Tolerance	$I_v\text{-m}$	-	-	2:1	-	$I_F = 10mA$



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Typical Electro-optical Characteristic Curves

(Ta=25°C)

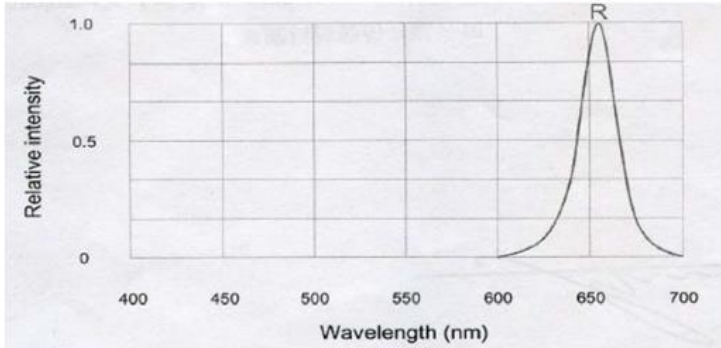


Fig1. Relative Intensity vs. Wavelength

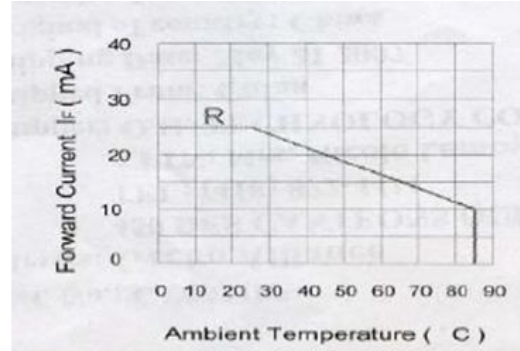


Fig3. Allowable DC Current vs. Ambient Temperature

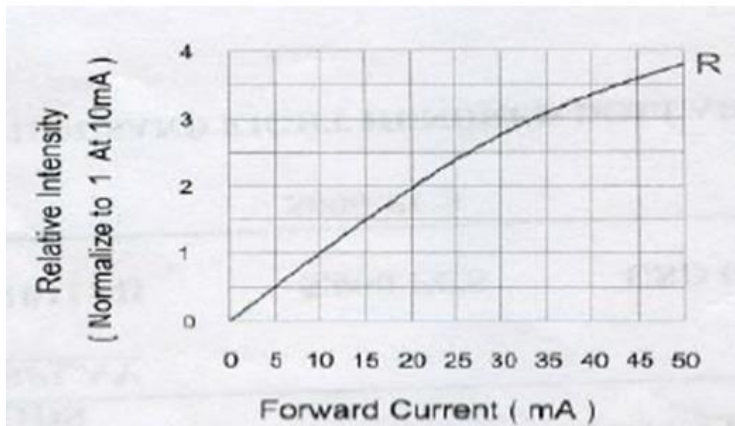


Fig2. Relative Intensity vs. Forward Current

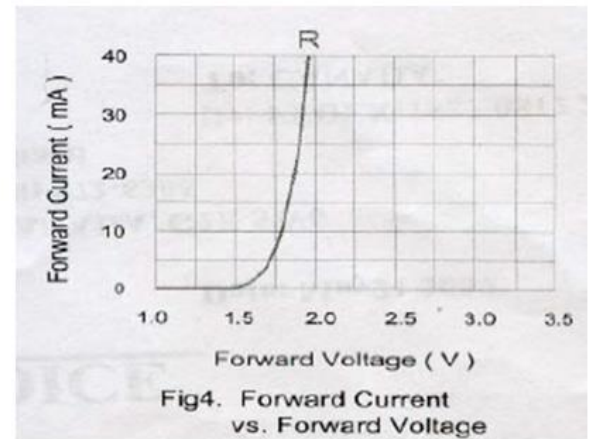


Fig4. Forward Current vs. Forward Voltage