



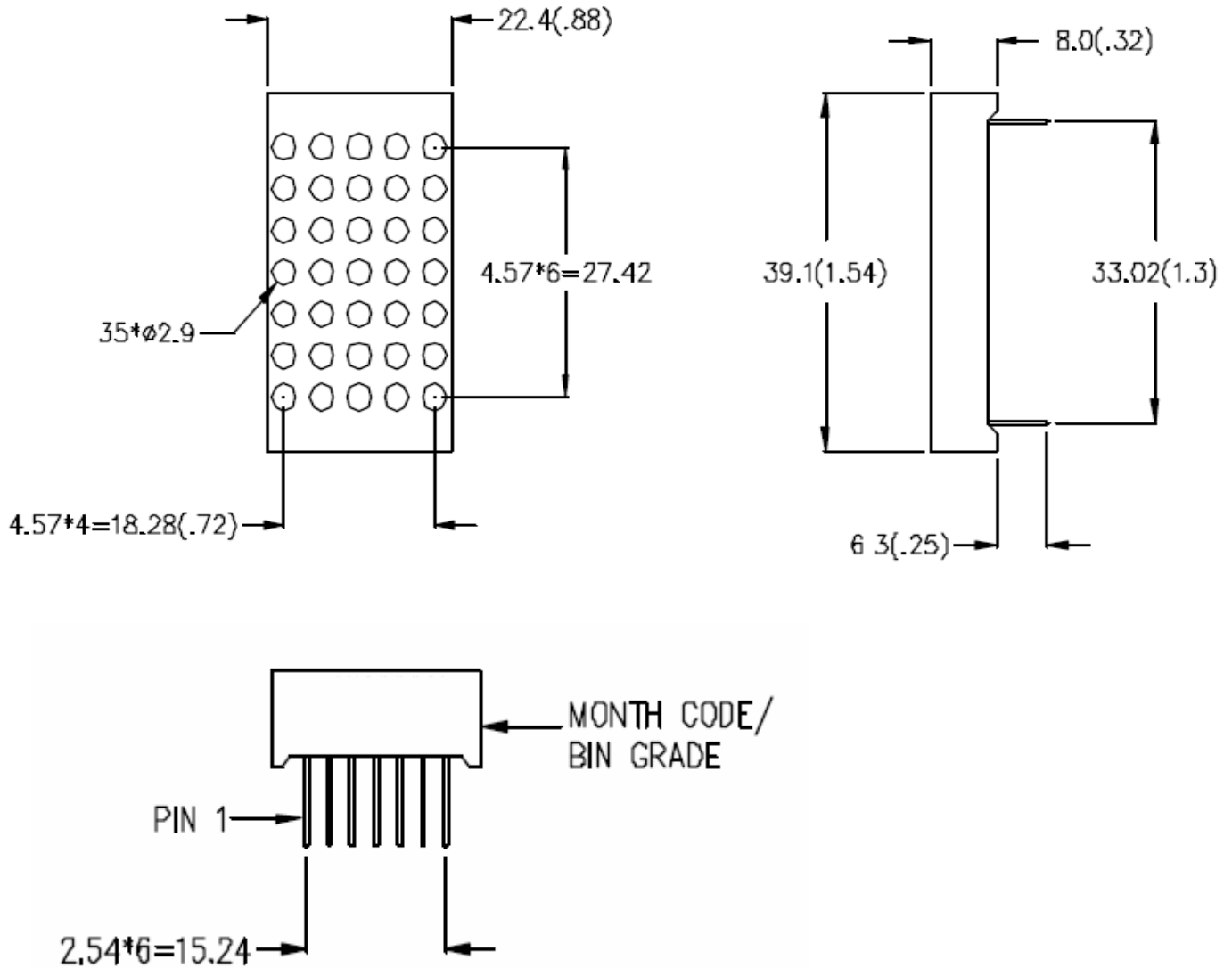
American Opto Plus LED

C/A3570X G/W

1.2" 5 x 7 DOT MATRIX DISPLAY

- ❖ 1.2inch (30.48 mm) height
- ❖ Low power consumption
- ❖ RoHS Compliance
- ❖ Case mold type

Package Dimensions



- Notes: 1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise specified



American Opto Plus LED

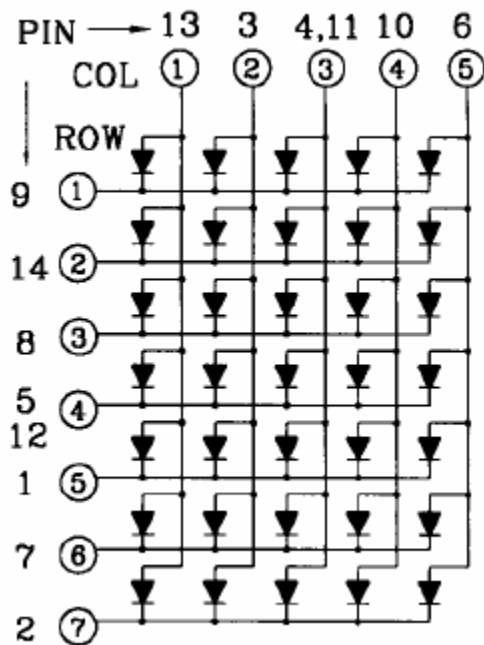
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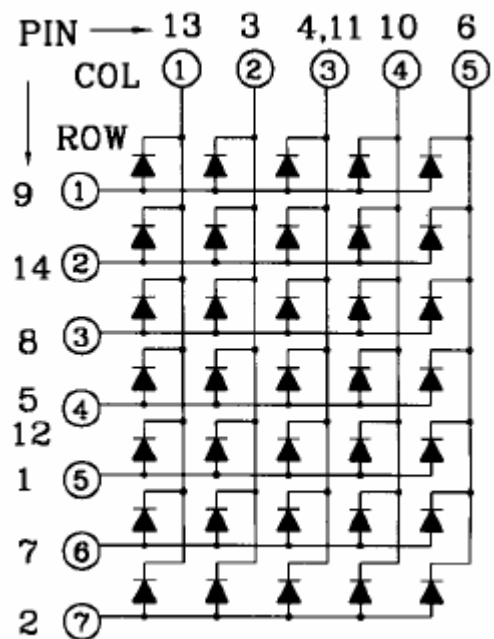
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Internal Circuit Diagram

A3570 SERIES DIAGRAM
(COLUMN ANODE)



C3570 SERIES DIAGRAM
(COLUMN CATHODE)





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◆SELECTION GUIDE AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Part No.	Chip		Wave Length λ_p (nm)	Absolute Maximum Ratings				Electro-Optical Characteristics					
	Raw Material	Emitted Color		$\Delta\lambda$	Pad	I _{af}	I _{pf}	V _f (V)			I _f	I _v (μ cd)	
				nm	mW	mA	(Peak)	Min.	Typ.	Max.	(Rec)	Min.	Typ.
C/A 3570E G/W	GaAsP	Orange-Red	625	45	75	30	100	1.7	1.85	2.5	10	1900	8000
C/A 3570G G/W	GaP	Green	568	30	65	30	100	1.7	2.1	2.8	10	1900	10500
C/A 3570SR G/W	GaAlAs	Super Red	640	20	72	20	100	1.6	1.75	2.4	10	4700	24000
C/A3570Y G/W	GaAsP	Yellow	588	35	75	30	100	1.7	2.1	2.8	10	1200	4700

◆ABSOLUTE MAXIMUM RATING: (Ta=25°C)

Reverse Voltage	: 5 Volt
Reverse Current (V _r =5V)	: 100 μ A
Operating Temperature Range	: -40°C ~ +85°C
Storage Temperature Range	: -40°C ~ +85°C
Soldering Temperature	: 250 ~ 260 for 3 seconds.

Para meter Description	Symbol	Unit
Spectral Line half-width	λ	nm
Power dissipation	P _d	mW
Peak Forward Current (Duty 1/10, @KHz)	I _f (Peak)	mA
Recommended Operation Current	I _f (Rec)	mA
Average Luminous intensity (I _f =10mA)	I _v	μ cd



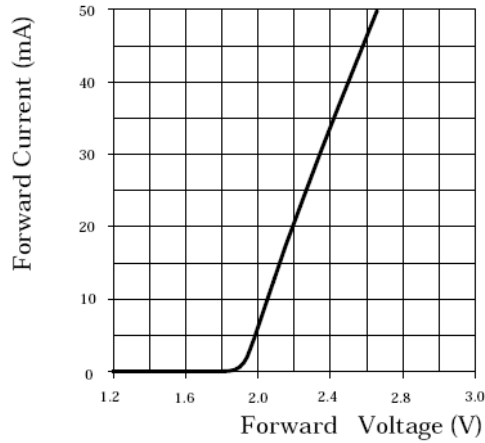
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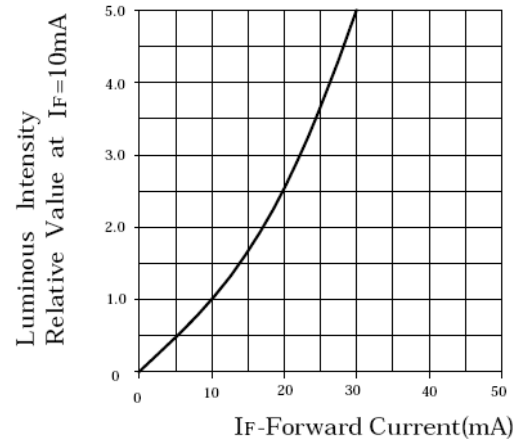
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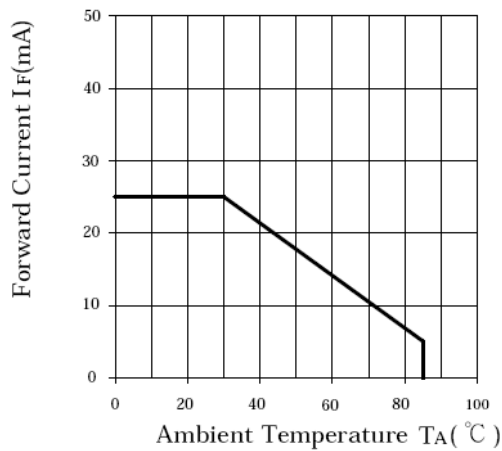
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES – GREEN (G)



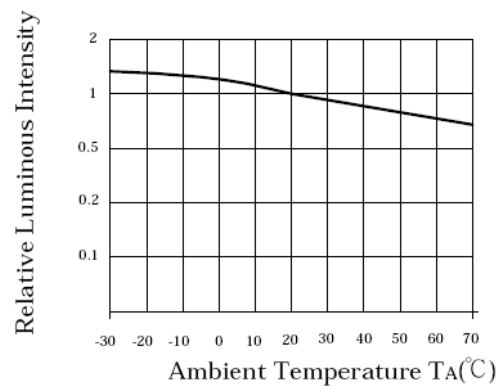
Forward Current Vs.
Forward Voltage



Luminous Intensity Vs.
Forward Current



Forward Current
Derating Curve



Luminous Intensity Vs.
Ambient Temperature



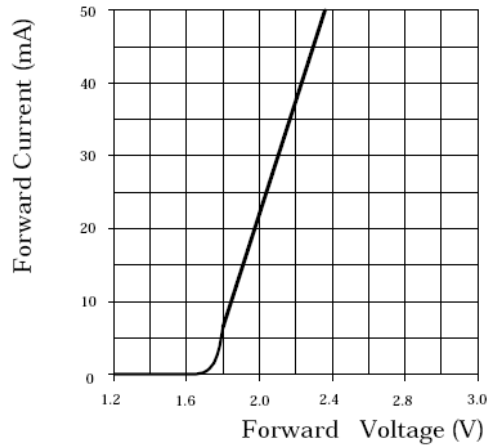
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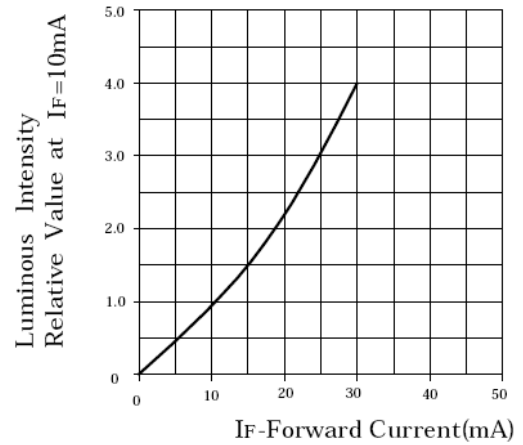
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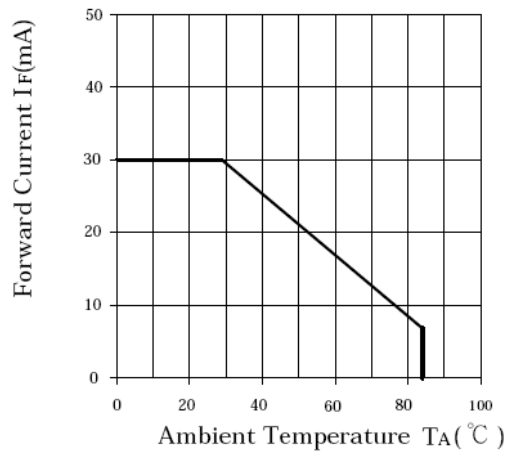
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES: ORANGE-RED (E)



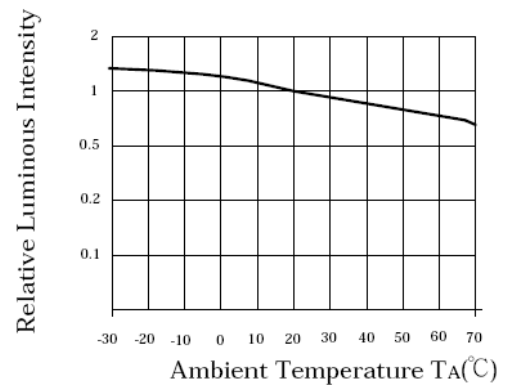
Forward Current Vs.
Forward Voltage



Luminous Intensity Vs.
Forward Current



Forward Current
Derating Curve



Luminous Intensity Vs.
Ambient Temperature



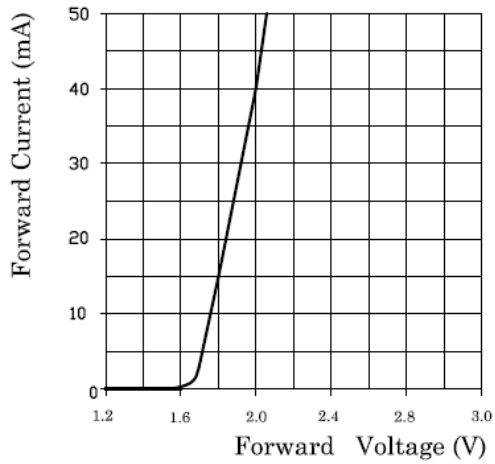
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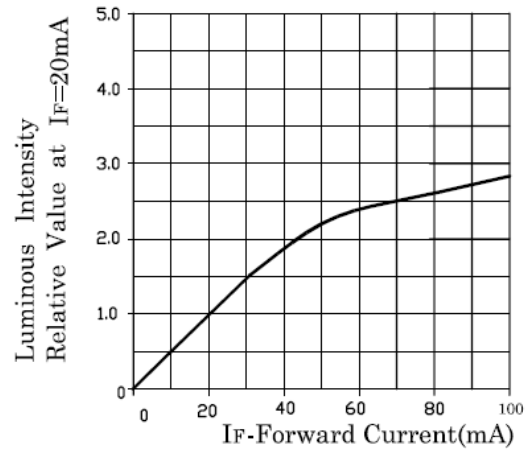
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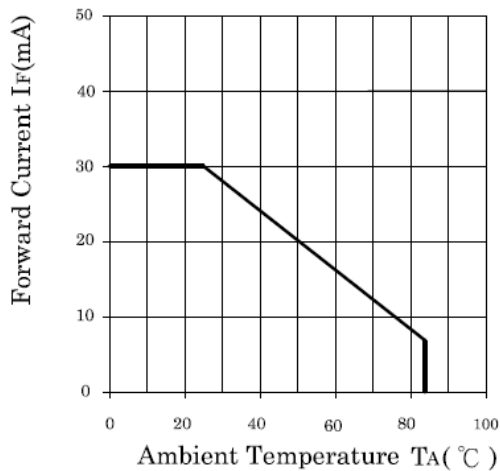
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES: SUPER RED (SR)



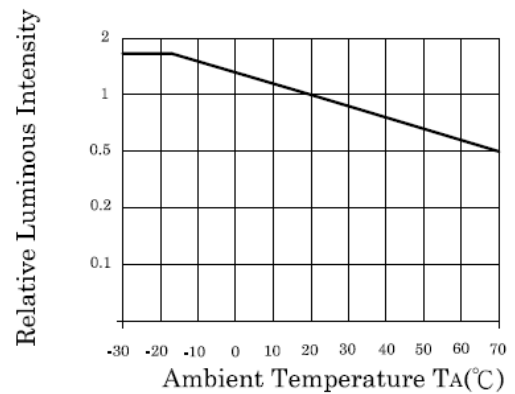
Forward Current Vs.
Forward Voltage



Luminous Intensity Vs.
Forward Current



Forward Current
Derating Curve



Luminous Intensity Vs.
Ambient Temperature



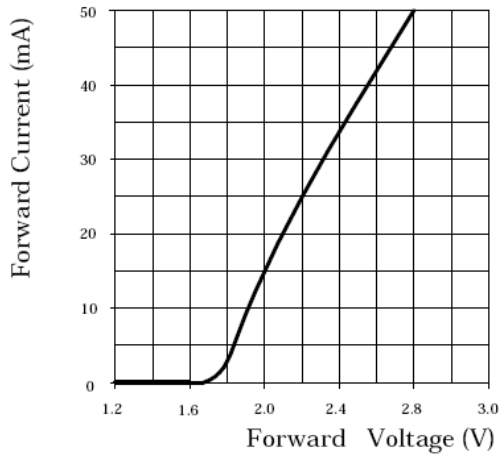
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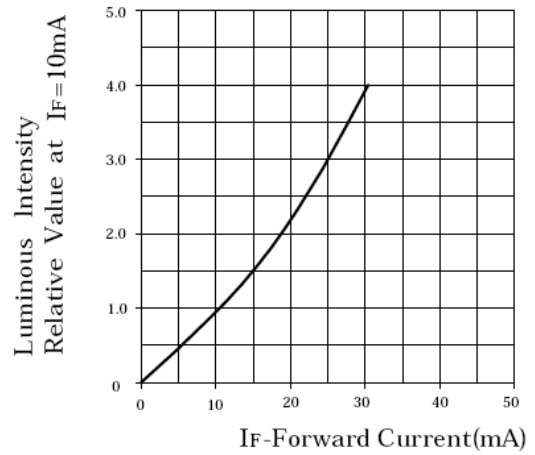
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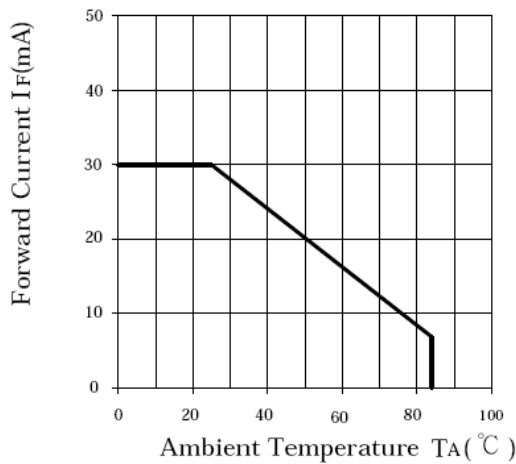
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES: YELLOW (Y)



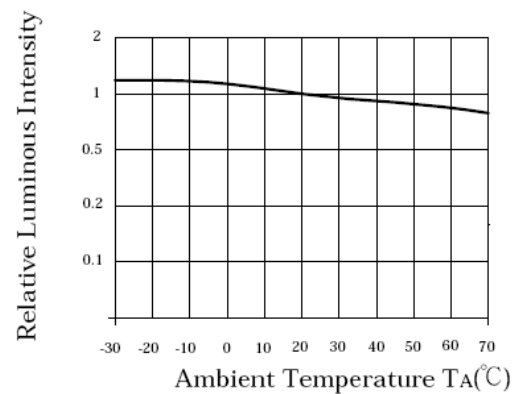
Forward Current Vs.
Forward Voltage



Luminous Intensity Vs.
Forward Current



Forward Current
Derating Curve



Luminous Intensity Vs.
Ambient Temperature



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WAVE SOLDERING

SOLDERING INSTRUCTIONS						
TYPES	DIP AND WAVE SOLDERING			IRON SOLDERING(WITH 1.5mm IRON TIP)		
	TEMPERATURE OF THE SOLDERING BATH	MAXIMUM SOLDERING TIME	DISTANCE FROM SOLDER JOINT TO CASE	TEMPERATURE OF SOLDERING IRON	MAXIMUM SOLDERING TIME	DISTANCE FROM SOLDER JOINT TO CASE
LEDS	$\leq 260^{\circ}\text{C}$	3S	$>2\text{mm}$	$\leq 295^{\circ}\text{C}$	3S	$>2\text{mm}$
	$\leq 260^{\circ}\text{C}$	5S	$>4\text{mm}$	$\leq 295^{\circ}\text{C}$	5S	$>4\text{mm}$
DISPLAYS	$\leq 260^{\circ}\text{C}$	3S	$>2\text{mm}$	$\leq 295^{\circ}\text{C}$	3S	$>2\text{mm}$