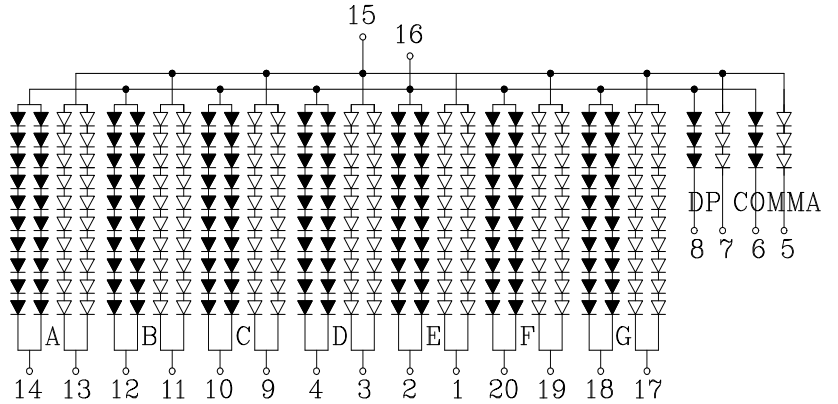
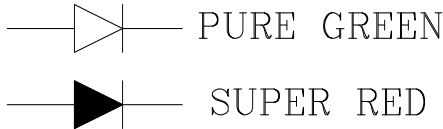
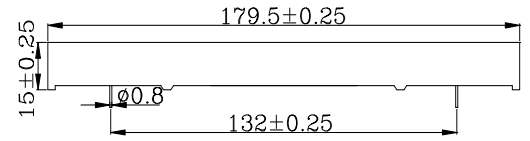
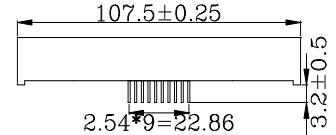
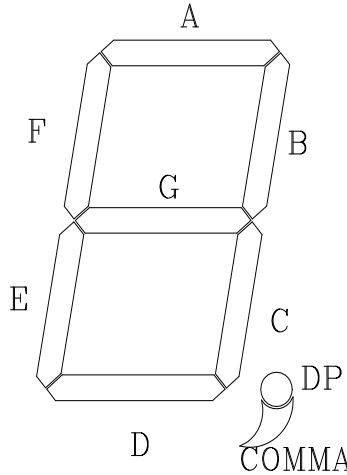
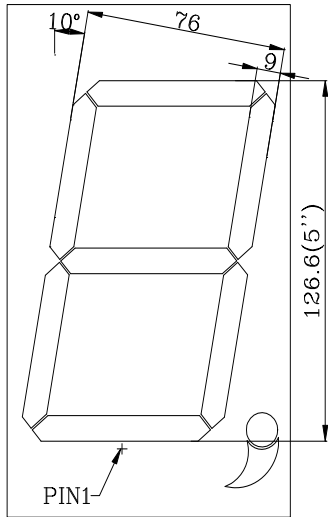


**SPECIFICATIONS**
**CDSABF500R2GT2WB**
**OUTLINES DIMENSIONS**


- Notes:
1. All Dimensions are in millimeters (inches).
  2. Tolerance is  $\pm 0.25\text{mm}$  (0.01") unless otherwise noted.
  3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens /Face	Description
CDSABF500R2GT2WB	InGaAlP	Red	White/Black	Common Anode
	InGaN	True Green		



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**ABSOLUTE MAXIMUM RATINGS - RED (InGaAlP)**
**(TA=25°C)**

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	80	mW
Pulse Forward Current	IFP	120	mA
Continuous Forward Current	IF	20	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-35~+85	°C
Storage Temperature Range	TSTG	-35~+85	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec			

**OPTICAL-ELECTRICAL CHARACTERISTICS - RED (InGaAlP)**
**(TA=25°C)**

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	26	60	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.1	2.4	V
Reverse Leakage Current	IR	VR = 40V	-	-	10	µA
Peak Wavelength	λP	IF = 20mA	-	628	-	nm
Dominant Wavelength	λD	IF = 20mA	-	630	-	nm
Spectral Radiation Bandwidth	Δλ	IF = 20mA	-	20	-	nm



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**ABSOLUTE MAXIMUM RATINGS - TRUE GREEN (InGaN)**
**(TA=25°C)**

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	80	mW
Pulse Forward Current	IFP	120	mA
Continuous Forward Current	IF	20	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-35~+85	°C
Storage Temperature Range	TSTG	-35~+85	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 5sec			

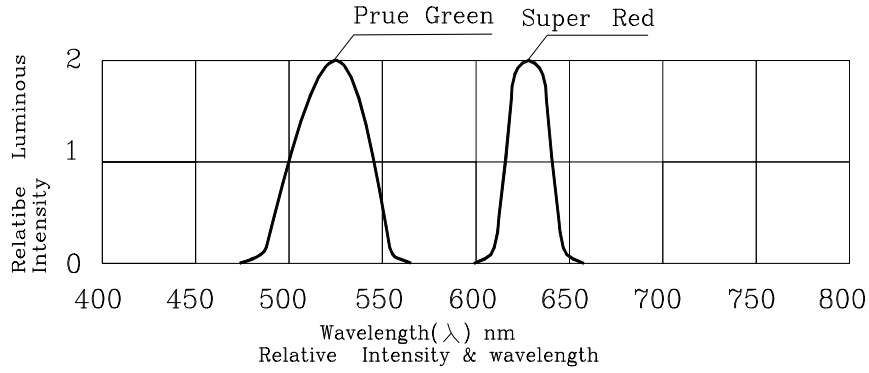
**OPTICAL-ELECTRICAL CHARACTERISTICS - TRUE GREEN (InGaN) (TA=25°C)**

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	26	60	-	mcd
Forward Voltage	VF	IF = 20mA	-	3.2	3.5	V
Reverse Leakage Current	IR	VR = 40V	-	-	10	µA
Peak Wavelength	λP	IF = 20mA	-	525	-	nm
Spectral Radiation Bandwidth	Δλ	IF = 20mA	-	30	-	nm

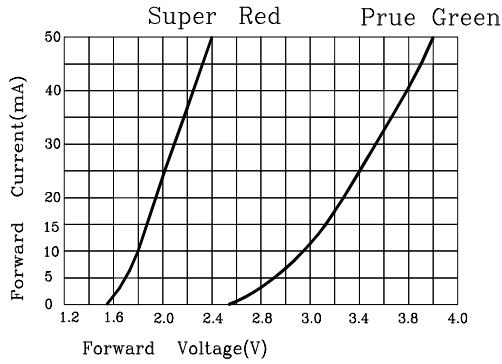


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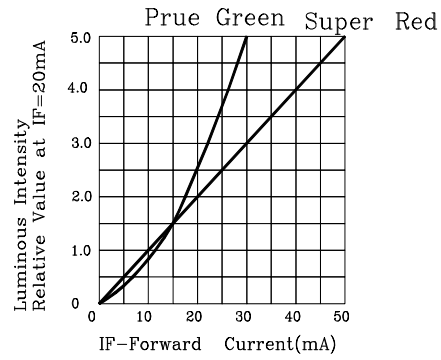
## OPTICAL CHARACTERISTIC CURVES



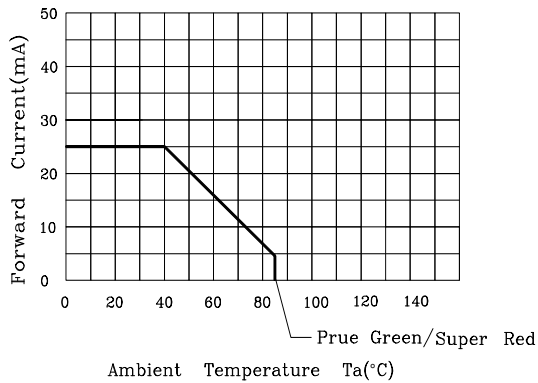
FORWARD CURRENT VS FORWARD VOLTAGE



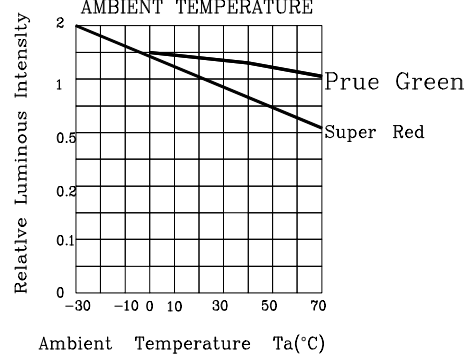
RELATIVE INTENSITY VS FORWARD CURRENT



FORWARD CURRENT VS DERATING CURVE



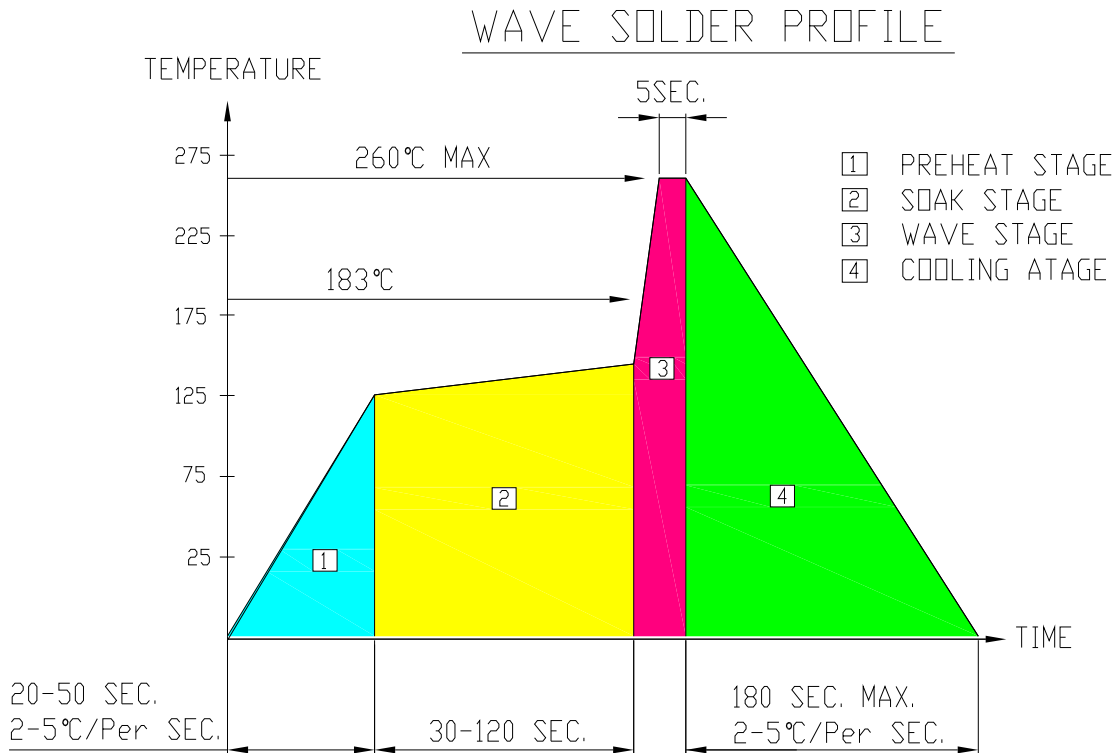
LUMINOUS INTENSITY VS AMBIENT TEMPERATURE



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# RECOMMENDED SOLDERING PROFILE

## ● RECOMMEND SOLDERING PROFILE



## ● SOLDERING IRON

Basic spec is  $\leq 4$  sec when 260°C. If temperature is higher, time should be shorter (+10°C → 1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

## ● REWORK

Customer must finish rework within  $\leq 4$  sec under 245°C.



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