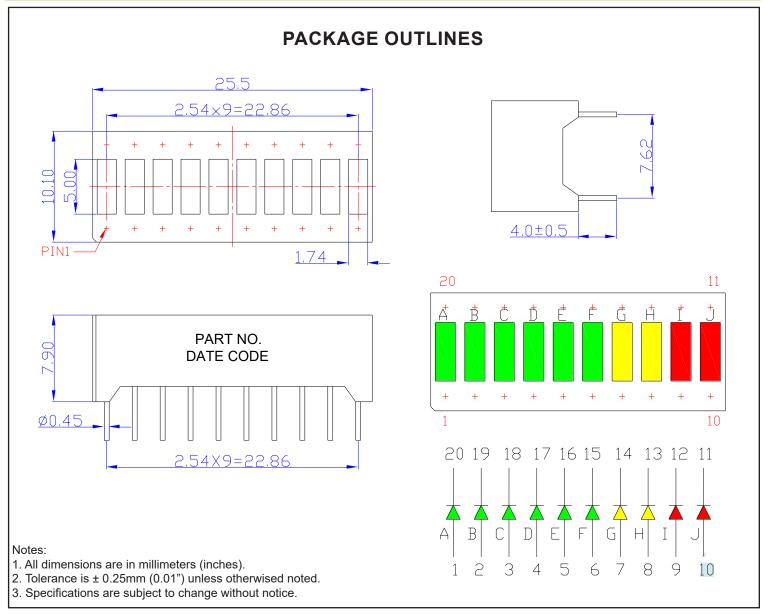


SPECIFICATION

CDBT10GT2Y2R2W



Part Number	Chip Material	Color of Emission	Segment Color	Description	
CDBT10GT2Y2R2W	InGaAIP	Red	White	Common Anode	
	InGaAlP	Yellow	White	Common Anode	
	InGaN	Green	White	Common Anode	





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating			Unit	
	Symbol	Yellow	Green Red		Unit	
Forward Current	lF	25	30	25	mA	
Reverse Voltage	VR	5	5	5	V	
Power Dissipation	Pd	70	120	70	mW	
Operating Temperature Range	Тор	-25~+85			°C	
Storage Temperature Range	Тѕтс	-25~+85			°C	
Peak Pulsing Current (tp \leq 10 μ S, duty cycle = 0.005)	lfp	90	120	90	mA	
Soldering Temperature	Tsol	Max 260°C for 5 sec Max				

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

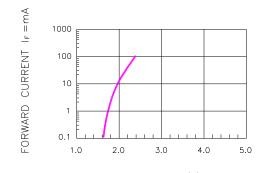
Deremeter	Symbol	Test Condition	Color	Value			Linit
Parameter				Min	Тур	Max	Unit
		IF = 20mA	Red	-	60	-	mcd
Luminous Intensity	Iv		Green	-	100	-	
			Yellow	-	60	-	
	VF	IF = 20mA	Red	-	2.0	2.6	V
Forward Voltage			Green	-	3.2	4.0	
			Yellow	-	2.0	2.6	
	rith Δλ	IF = 20mA	Red	-	20	-	nm
Spectral Radiation Bandwith			Green	-	30	-	
			Yellow	-	20	-	
	th λD	IF = 20mA	Red	619	624	629	nm
Dominant Wavelength			Green	500	525	535	
			Yellow	585	590	595	
Bolls Chramel CD Company in the right to make a banage at any time in							



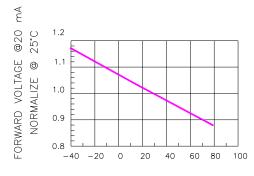


TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (RED)

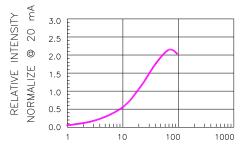
(25 °C Free Air Temperature Unless Otherwise Specified)



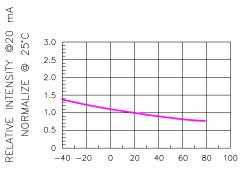




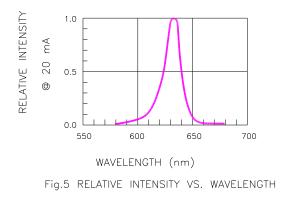
AMBIENT TEMPERATURE(°C) Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

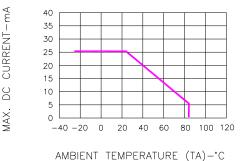


FORWARD CURRENT (mA) Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT



AMBIENT TEMPERATURE(°C) Fig.4 RELATIVE INTENSITY VS. TEMPERATURE



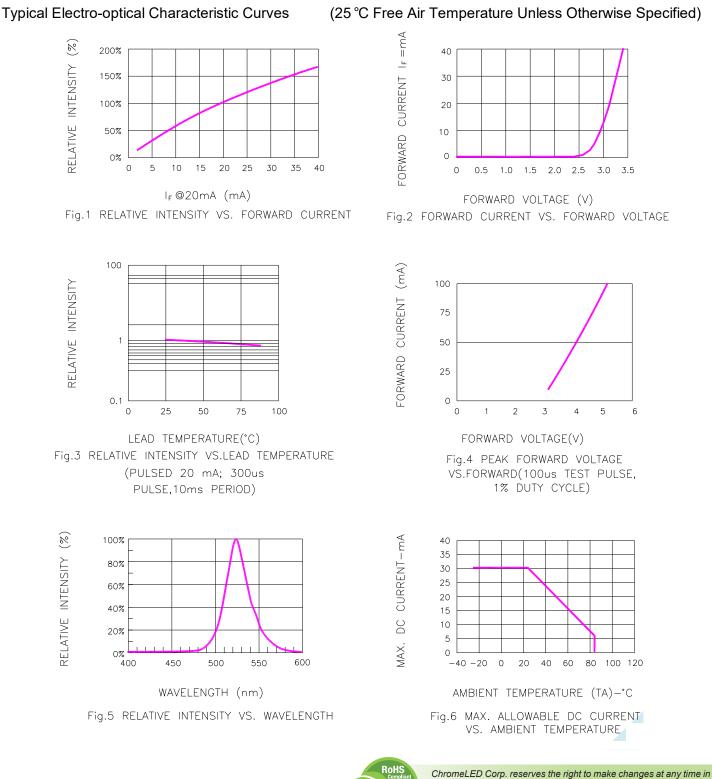








PICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (GREEN)



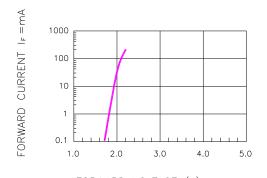
(25 °C Free Air Temperature Unless Otherwise Specified)

order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

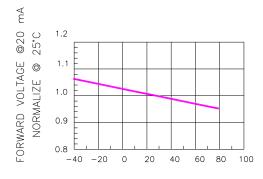


TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (YELLOW)

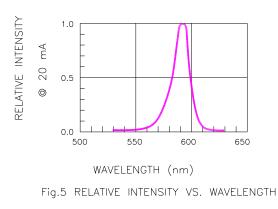
(25 °C Free Air Temperature Unless Otherwise Specified)

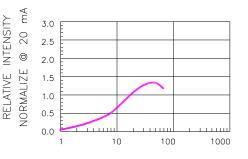


FORWARD VOLTAGE (V) Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

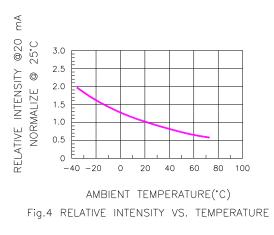


AMBIENT TEMPERATURE(°C) Fig.3 FORWARD VOLTAGE VS. TEMPERATURE





FORWARD CURRENT (mA) Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT



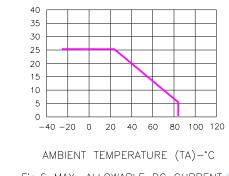


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



CURRENT-mA

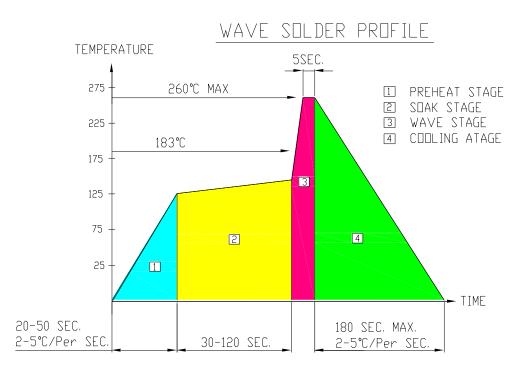
DC

MAX.



SOLDERING CONDITIONS

RECOMMEND SOLDERING PROFILE



Note:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- No more than one wave soldering pass

SOLDERING IRON

Basic spec is ≦4 sec when 260°C. If temperature is higher, time should

be shorter (+10°C \rightarrow 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 ≦3 sec under 350°C. The head of soldering iron cannot touch copper foil.

