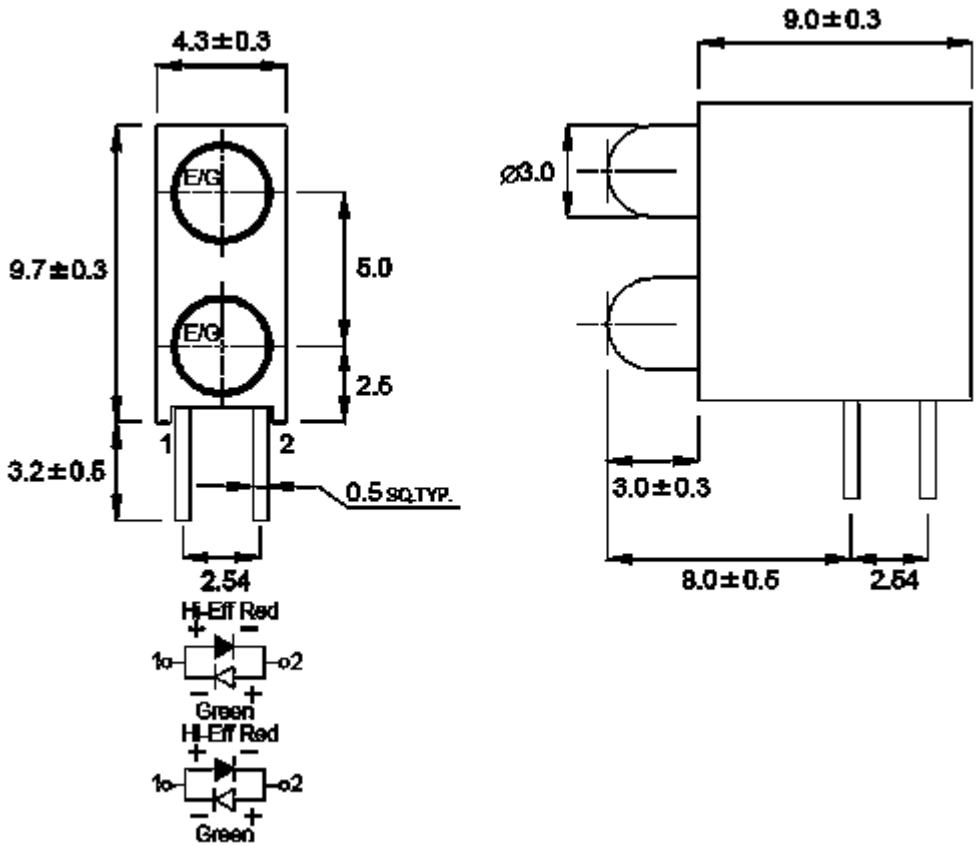


SPECIFICATION **CBD302RGW**
PACKAGE OUTLINES


- 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 Type	Viewing Angle
CBD302RGW	GaAsP/GaP	Red	White Diffused	76°
	GaP	Green	White Diffused	76°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	30	mA
Reverse Current @ 5V	I _R	10	μA
Power Dissipation	P _d	80	mW
Operating Temperature Range	T _{OP}	-40~+85	°C
Storage Temperature Range	T _{STG}	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	150	mA
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I _v	I _F = 20mA	R	-	6	-	mcd
			G	-	6		
Forward Voltage	V _F	I _F = 20mA	G	-	1.9	2.5	V
			R	-	2.1	2.5	
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	-	40	-	Deg
Peak Wavelength	λ _P	I _F = 20mA	R	-	640	-	nm
			G		568		
Dominant Wavelength	λ _D	I _F = 20mA	R	-	625	-	nm
			G		570		

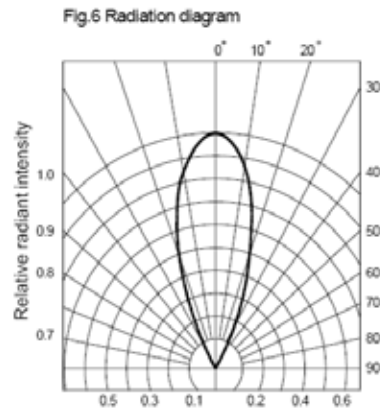
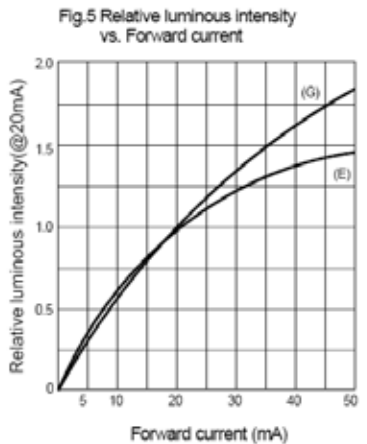
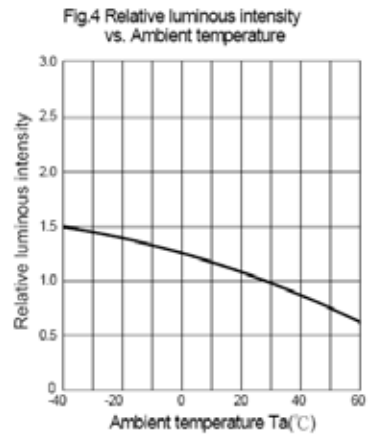
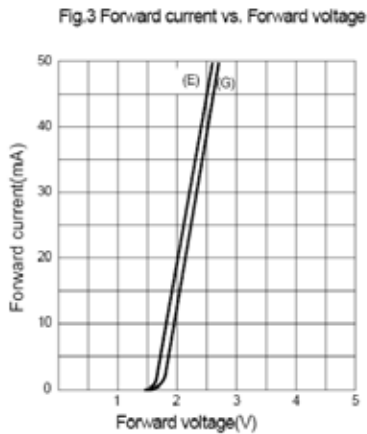
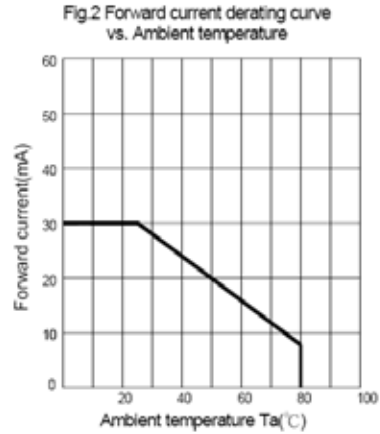
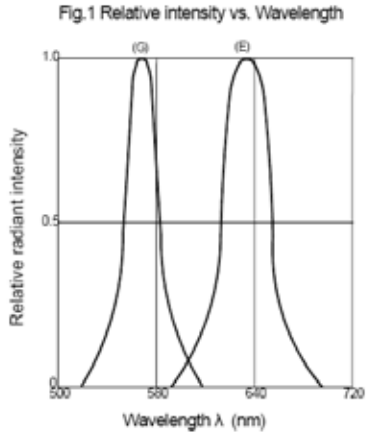
*Tolerance of viewing angle: -10 / +5 deg.



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OPTICAL CHARACTERISTIC CURVES

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



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