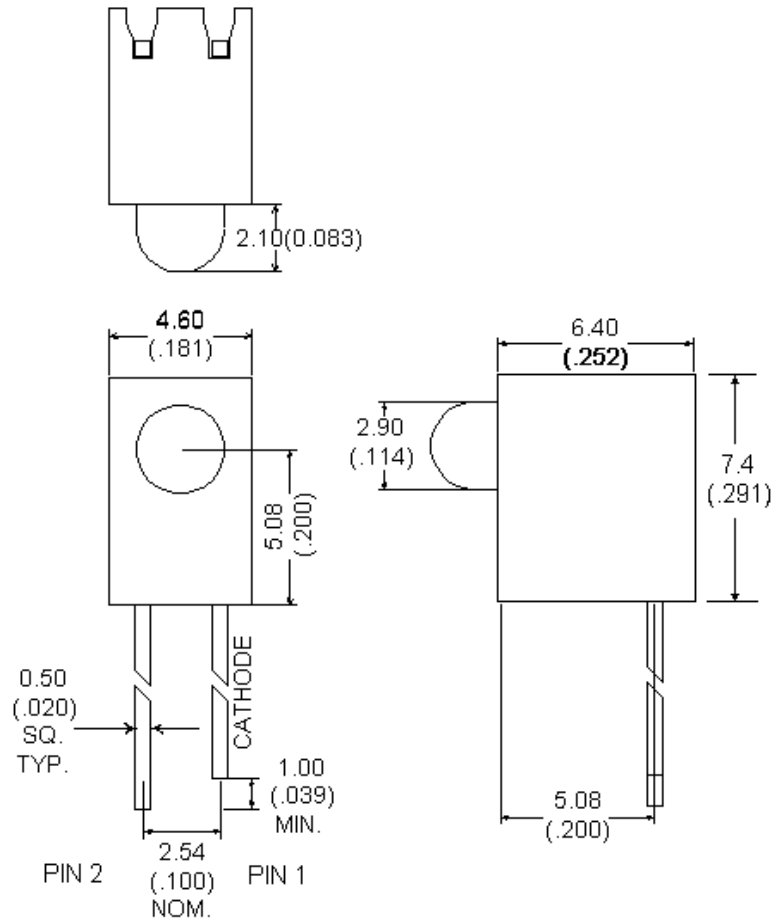


SPECIFICATIONS
CB29RR1D
PACKAGE OUTLINES

Notes:

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

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CB29RR1D	GaAlAs	Red	Red Diffused	60°



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward current	If	20	mA
Reverse current @ 5V	Ir	10	μA
Power dissipation	Pd	60	mW
Operating temperature range	Topr	-40~+80	°C
Storage temperature range	Tstg	-40~+100	°C
Peak pulsing current (1/10 duty f= 10KHz)	Ifp	160	mA
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Wavelength at peak emission	λ_{peak}	IF = 20mA	-	660	-	nm
Spectral half bandwidth	$\Delta\lambda$	IF = 20mA	-	20	-	nm
Dominant wavelength	λ_D	IF = 20mA	-	640	-	nm
Forward Voltage	Vf	IF = 20mA	1.6	1.8	2.1	V
Luminous intensity	Iv	IF = 20mA	20	100	-	mcd
Viewing angle at 50% Iv	$2\theta_{1/2}$	IF = 20mA	-	60	-	Deg

*NOTE: 1. The forward voltage data did not including $\pm 0.1V$ tolerance 2. The luminous intensity data did not including $\pm 15\%$ tolerance



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com