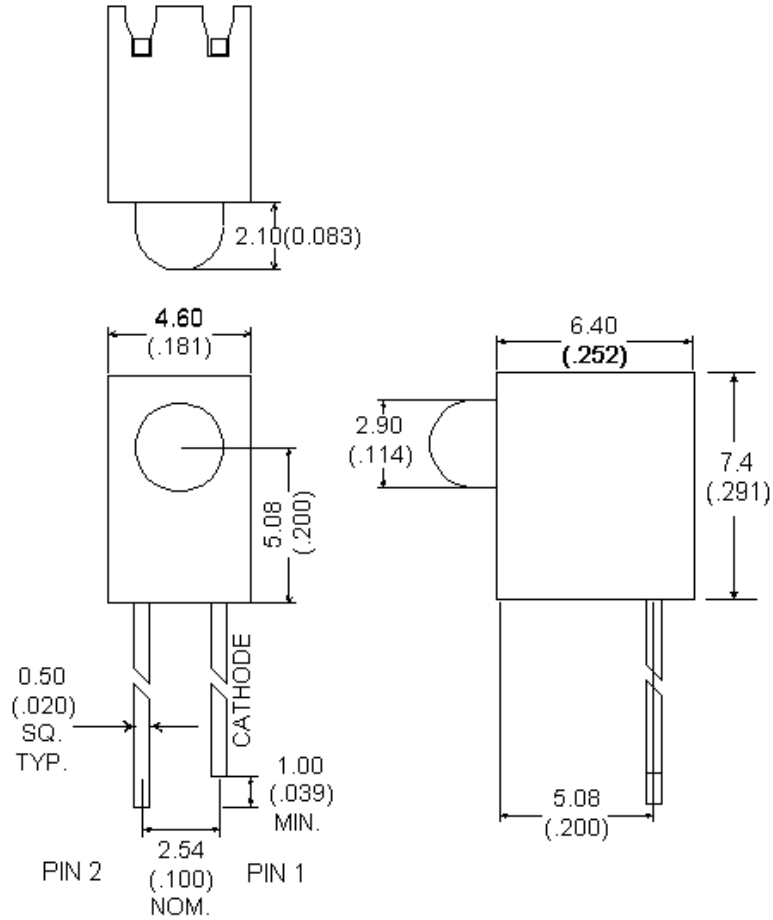


SPECIFICATIONS **CB29Y1D**
PACKAGE OUTLINES


- 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
CB29Y1D	GaAsP/GaP	Yellow	Yellow Diffused	60°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward current	If	30	mA
Reverse current @ 5V	Ir	10	μA
Power dissipation	Pd	100	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	-	585	-	nm
Spectral half bandwidth	$\Delta\lambda$	IF = 20mA	-	30	-	nm
Dominant wavelength	λ_D	IF = 20mA	-	588	-	nm
Forward Voltage	Vf	IF = 20mA	1.7	2.1	2.8	V
Luminous intensity	Iv	IF = 20mA	2.5	12.5	-	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



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