

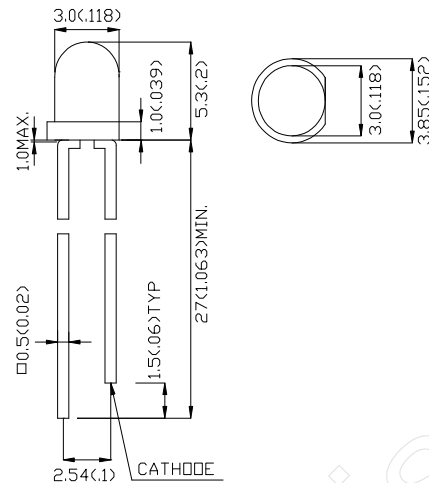
3mmInfrared LED

HIR3401C-R-20L

Device Selection Guide

LED Part NO.	Chip Material	Lens Color
HIR	AlGaAs/GaAs	Water clear

Package Dimensions



Unit:mm(inch)
Tolerance: $\pm 0.25(0.01)$

Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Units
Continuous Forward Current	I_F	30	mA
Peak Forward Current	I_{FP}	800	mA
Reverse Voltage	V_R	5	V
Power Dissipation at(or below) 25℃ Free Air Temperature	P_d	150	mW
Lead Soldering Temperature	T_{sol}	260	℃
Operating Temperature	T_{opr}	-25~+85	℃
Storage Temperature	T_{stg}	-40~+85	℃

Notes:*1: I_{FP} Conditions—Pulse Width $\leq 100\mu s$ and Duty $\leq 1\%$.

2: Soldering time ≤ 5 seconds.

Electro-Optical Characteristics(Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Radiant Intensity	E_e	$I_F=20mA$	---	15	---	mW/sr
		$I_F=100mA$	---	100	---	
		Pulse Width $\leq 100\mu s$, Duty $\leq 1\%$	---	---	---	
Peak Wavelength	λ_p	$I_F=20mA$	---	850	---	nm
Spectral Bandwidth	$\Delta \lambda$	$I_F=20mA$	---	45	---	nm
Forward voltage	V_F	$I_F=20mA$	1.35	1.45	1.60	V
		$I_F=100mA$	---	1.40	1.90	
		Pulse Width $\leq 100\mu s$, Duty $\leq 1\%$	---	---	---	
Reverse Current	I_R	$V_R=5V$	---	---	10	μA
View Angle	$\theta_{1/2}$	$I_F=20mA$	---	± 10	---	deg