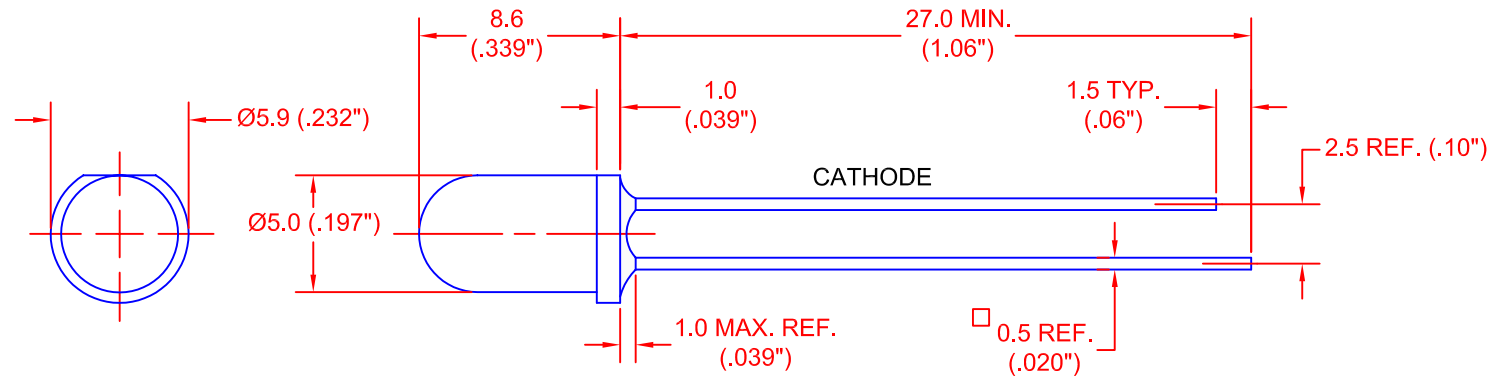


REV.	DESCRIPTION/ECO NO.	DATE
	RELEASED	10/14/08



ELECTRICAL & OPTICAL CHARACTERISTICS

JKL PART NUMBER	FORWARD VOLTAGE (DC)		FORWARD CURRENT (mA)*		OPERATING TEMP. (C)		INTENSITY mcd**		PEAK WAVELENGTH nm	COLOR		TYP. VIEWING 1/2 ANGLE DEGREE
	TYP.	MAX.	TYP.	MAX.	MIN.	MAX.	MIN.	TYP.		LED SOURCE (DICE)	LENS TYPE TYPE	
	Z-221RH-12V	12	20	11	20	-40	+85	20.0		80.0	625	

* CONTINUOUS-DUTY RATING

** INTENSITY VALUES ARE AT TYPICAL FORWARD VOLTAGE OF 12V

NOTE: LED PACKAGE HAS A BUILT-IN RESISTOR FOR CURRENT LIMITING.
THIS DEVICE CAN BE CONNECTED TO 12 TO 20 VOLTS DC DIRECTLY WITH NO EXTERNAL CURRENT LIMITING USED.

ELECTRO STATIC DISCHARGE PROTECTION REQUIRED WHEN HANDLING DEVICES.

 THIRD ANGLE PROJECTION	METRIC DIMENSIONS ARE IN MILLIMETERS (INCHES)	JKL COMPONENTS CORPORATION					
	TOLERANCE UNLESS OTHERWISE SPECIFIED ±0.25mm (±0.01)	TITLE T-1 3/4 (5mm) STANDARD STRAIGHT FRAME ROUND LED LAMP WITH BUILT-IN CURRENT LIMITING RESISTOR					
DRAWN BY L. WENGSTROM	APPV'D BY L.R.	DATE 10/14/08	SIZE A	FSCM NO. 55335	DRAWING NO. Z-221RH-12V		
- CAD DRAWING - MANUAL REVISIONS NOT PERMITTED			SCALE NONE	RELEASED DATE 10/14/08	REVISION DATE	REV. NO.	SHEET 1 OF 1