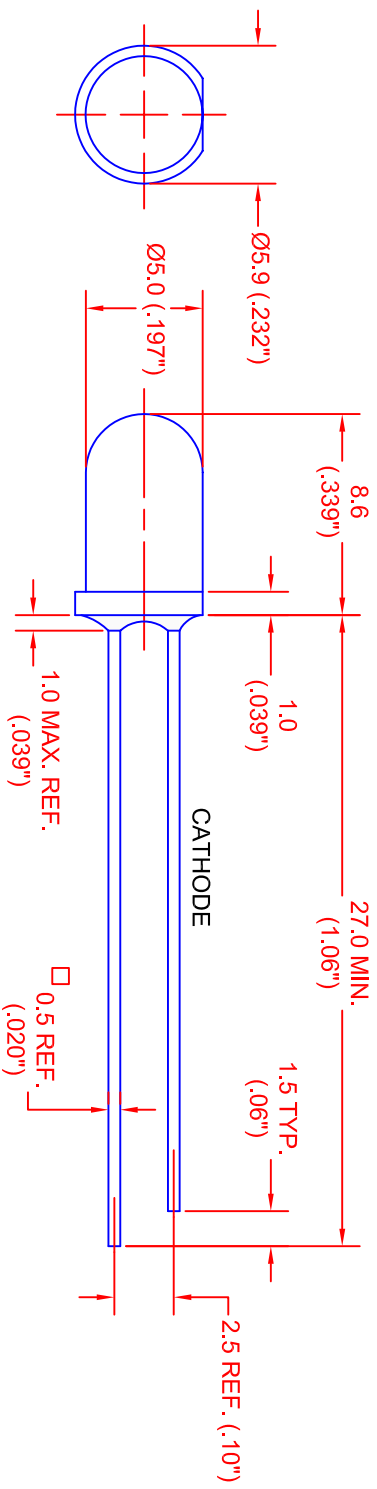


REV.	DESCRIPTION/ECO NO.	DATE
	RELEASED	10/14/08



**ELECTRICAL & OPTICAL CHARACTERISTICS**

JKL PART NUMBER	FORWARD VOLTAGE (DC)		FORWARD CURRENT (mA)*		OPERATING TEMP. (C)		INTENSITY mcd**		PEAK WAVELENGTH nm	COLOR LED SOURCE (DICE)	LENS TYPE	TYP. VIEWING ANGLE DEGREE
	TYP.	MAX.	TYP.	MAX.	MIN.	MAX.	MIN.	TYP.				
Z-221RH-12V	12	20	11	20	-40	+85	20.0	80.0	625	HIGH EFFICIENCY RED GaAsP/GaP	RED DIFFUSED	60

\* 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.**

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