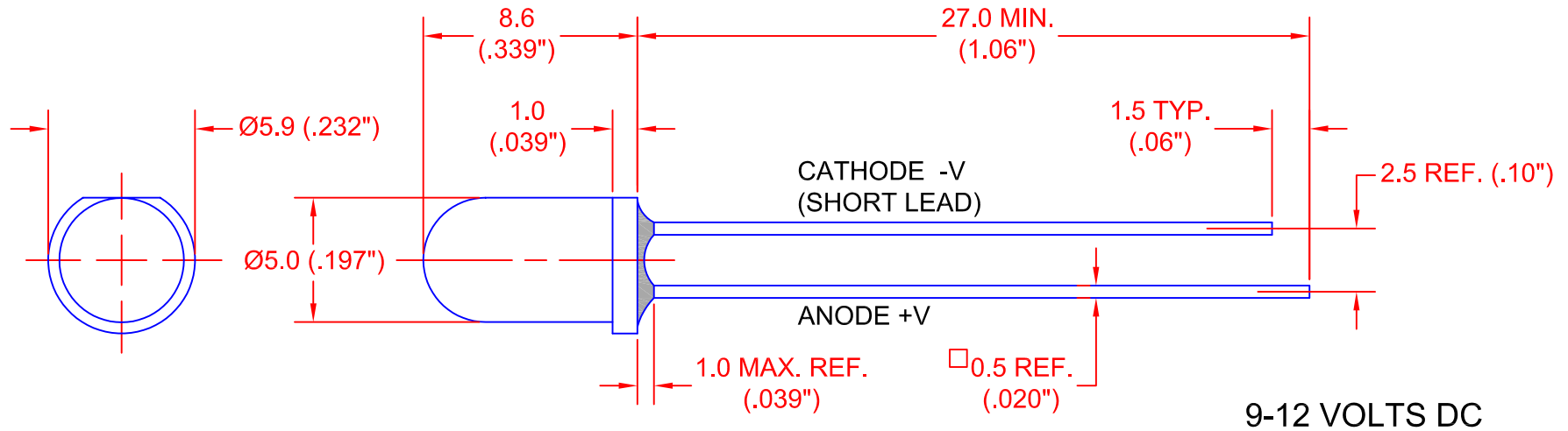


REV.	DESCRIPTION/ECO NO.	DATE
	RELEASED TO CAD	3/10/10



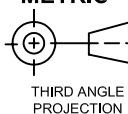
ELECTRICAL & OPTICAL CHARACTERISTICS

JKL PART NUMBER	FORWARD VOLTAGE (DC)		FORWARD CURRENT (mA)*		OPERATING TEMP. (C)		INTENSITY mcd**		PEAK WAVELENGTH nm	COLOR	
	TYP.	MAX.	TYP.	MAX.	*MIN.	*MAX.	MIN.	TYP.		LED SOURCE (DICE)	LENS TYPE TYPE
	ZP-221R/70	9	14	22	44	-40	+70	50		70	660
ZP-223R/700	9	14	22	44	-40	+70	300	700	660	SUPER BRIGHT RED GaAIs	WATER CLEAR

* CONTINUOUS-DUTY RATING

** INTENSITY VALUES ARE AT TYPICAL FORWARD CURRENT OF 20mA

NOTE: ELECTRO STATIC DISCHARGE PROTECTION REQUIRED WHEN HANDLING DEVICES.

METRIC  THIRD ANGLE PROJECTION	DIMENSIONS ARE IN MILLIMETERS (INCHES)	JKL COMPONENTS CORPORATION				
	TOLERANCE UNLESS OTHERWISE SPECIFIED ±0.25mm (±0.01)					
DRAWN BY L. WENGSTROM	APPV'D BY DATE L.W 3/10/10	SIZE A	FSCM NO. 55335	DRAWING NO. ZP-22 SUPER BRIGHT		
- CAD DRAWING - MANUAL REVISIONS NOT PERMITTED		SCALE NONE	RELEASED DATE 3/10/10	REVISION DATE	REV. NO.	SHEET 1 OF 1