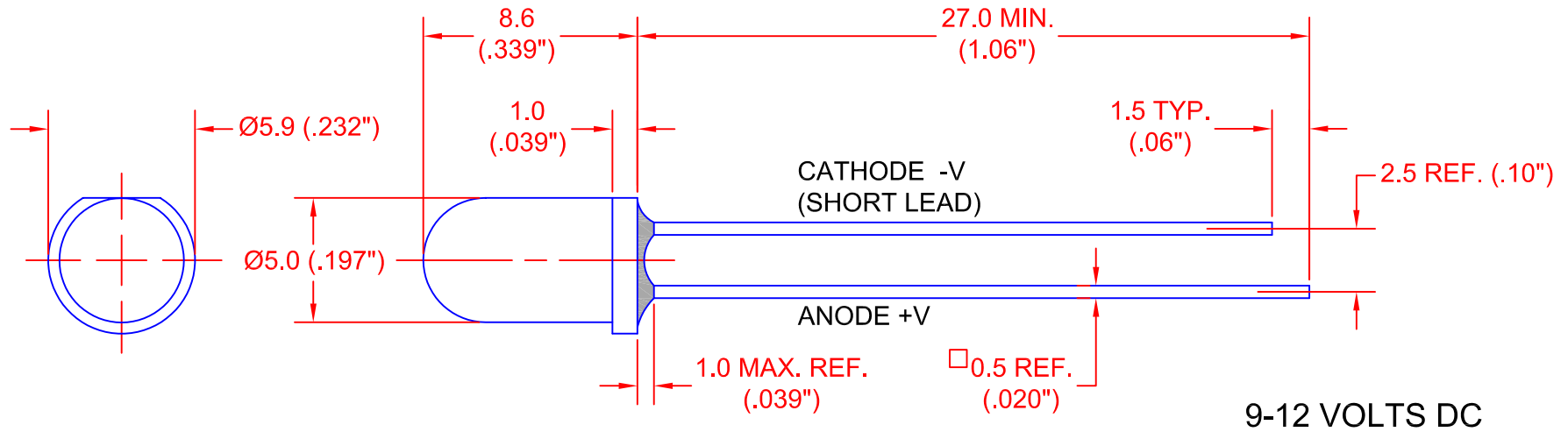


REV.	DESCRIPTION/ECO NO.	DATE
	RELEASED TO CAD	12/16/08



9-12 VOLTS DC

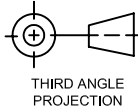
ELECTRICAL & OPTICAL CHARACTERISTICS

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-221RE	9	14	22	44	-40	+70	1.2		2.0	660
ZP-221RH	9	14	22	44	-40	+70	5.0	12.5	625	HIGH INTENSITY GaAsP/GaP	RED DIFFUSED
ZP-221G	9	14	22	44	-40	+70	3.2	8.0	568	GREEN GaP	GREEN DIFFUSED
ZP-221Y	9	14	22	44	-40	+70	5.0	12.5	588	YELLOW GaAsP/GaP	YELLOW DIFFUSED

* 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) TOLERANCE UNLESS OTHERWISE SPECIFIED ±0.25mm (±0.01)		JKL COMPONENTS CORPORATION			
DRAWN BY L. WENGSTROM		APPV'D BY DATE L.R. 12/16/08		SIZE A	FSCM NO. 55335	DRAWING NO. ZP-22	
- CAD DRAWING - MANUAL REVISIONS NOT PERMITTED				SCALE NONE	RELEASED DATE 12/16/08	REVISION DATE	
					REV. NO.	SHEET 1 OF 1	