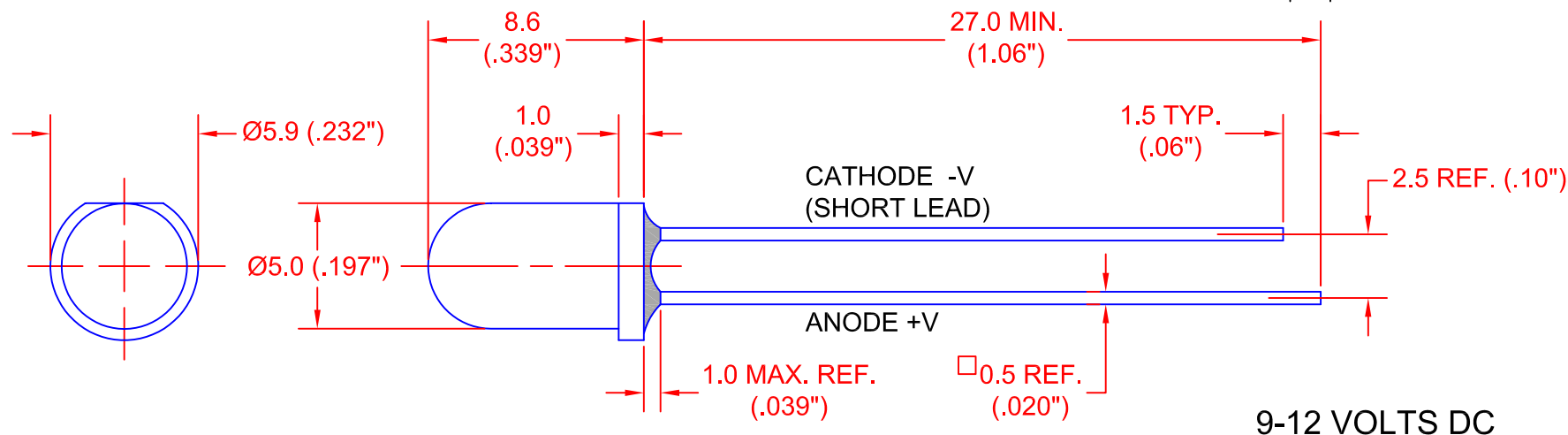


REV.	DESCRIPTION/ECO NO.	DATE
	RELEASED TO CAD	12/16/08



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	BRIGHT RED GaP	RED DIFFUSED
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)		JKL COMPONENTS CORPORATION			
	TOLERANCE UNLESS OTHERWISE SPECIFIED ±0.25mm (±0.01)		TITLE T-1 3/4 (5mm) PULSING, SUPER BRIGHT, STRAIGHT FRAME ROUND LED LAMP			
DRAWN BY L. WENGSTROM	APPV'D BY L.R.	DATE 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

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[ZP-221G](#) [ZP-221Y](#) [ZP-221R/70](#)