

ELECTRO-OPTICAL CHARACTERISTICS Ta=25°C If=20mA

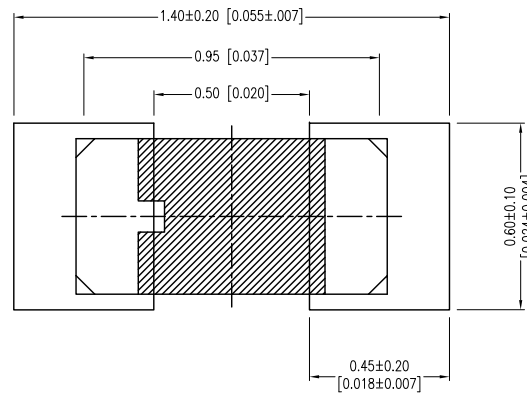
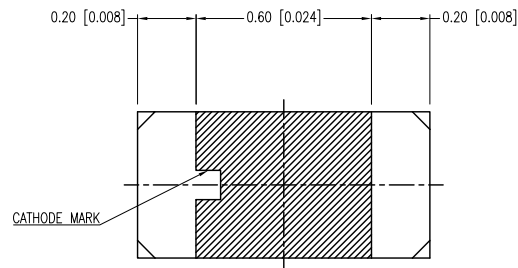
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH				nm	
FORWARD VOLTAGE	2.7		3.2	Vf	If=20mA
REVERSE VOLTAGE	5.0			Vr	Ir=100μA
LUMINOUS INTENSITY		140	360	mcd	If=20mA
VIEWING ANGLE		130		2x theta	
EMITTED COLOR:	WHITE				
LENS FINISH:	YELLOW DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	20	mA
STEADY CURRENT	10	mA
POWER DISSIPATION	30	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +90	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY	3	SEC.

* t<10μs

SOLDER PAD LAYOUT



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

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BIN RANGE OF LUMINOUS INTENSITY

BIN	MIN	MAX	UNIT	CONDITION
R2	140	180	mcd	If=5mA
S1	180	225		
S2	225	285		
T1	285	360		

BIN RANGE OF FORWARD VOLTAGE

GROUP	BIN	MIN	MAX	UNIT	CONDITION
Q	29	2.70	2.80	V	If=5mA
	30	2.80	2.90		
	31	2.90	3.00		
	32	3.00	3.10		
	33	3.10	3.20		

NOTES:

1. TOLERANCE OF LUMINOUS INTENSITY: $\pm 11\%$.
2. TOLERANCE OF FORWARD VOLTAGE: $\pm 0.05V$.

CHROMATICALLY COORDINATES SPECIFICATIONS FOR BIN GRADING

GROUP	BIN CODE	CIE_x	CIE_y	CONDITION
A	1	0.274	0.226	If=5mA
		0.274	0.258	
		0.294	0.286	
		0.294	0.254	
	2	0.274	0.258	
		0.274	0.291	
		0.294	0.319	
		0.294	0.286	
	3	0.294	0.254	
		0.294	0.286	
		0.314	0.315	
		0.314	0.282	
	4	0.294	0.286	
		0.294	0.319	
		0.314	0.347	
		0.314	0.315	
	5	0.314	0.282	
		0.314	0.315	
		0.334	0.343	
		0.334	0.311	
	6	0.314	0.315	
		0.314	0.347	
		0.334	0.376	
		0.334	0.343	

NOTES:

1. THE C.I.E. 1931 CHROMATICALLY DIAGRAM TOLERANCE: $\pm 0.01\%$.

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

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WHITE LED, WATER CLEAR, 1.00mm X 0.50mm.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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