

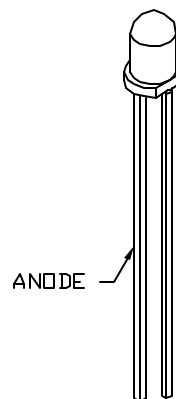
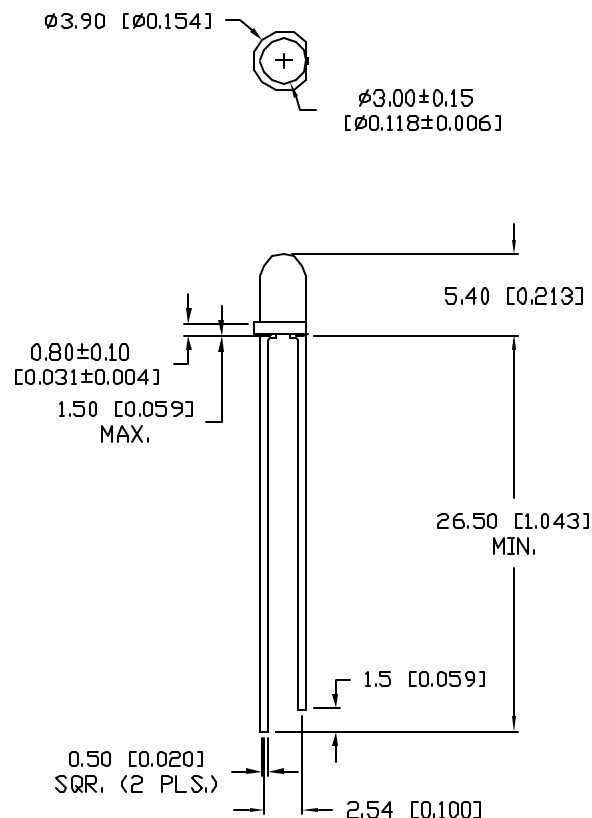
UNCONTROLLED DOCUMENT

PART NUMBER

OED-EL3054C16

REV.

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR.	1.7.98
B	E.C.N. #10BRDR. & REDRAWN IN 3D.	12.30.02

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940		nm	
SPECTRAL BANDWIDTH		50		nm	
FORWARD VOLTAGE		1.2	1.4	V _f	
REVERSE VOLTAGE	5.0			V _r	I _r =10μA
RADIANT INTENSITY		7.0		mW/SR	I _f =50mA
HALF ANGLE		± 8		degrees	
EPOXY LENS FINISH: WATER CLEAR EPOXY LENS FINISH: WATER CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	60	mA
POWER DISSIPATION	80	mW
DERATE FROM 25°C	- 1.6	mW/°C
OPERATING TEMP.	- 20 TO + 70	°C
STORAGE TEMP.	- 30 TO + 80	°C
SOLDERING TEMP.	+ 260	°C
2.0mm FROM BODY		3 SEC. MAX

* $t_p < 100 \mu s$, $t_p/T = 0.01$

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

REV.

PART NUMBER

B

OFD-FL 3054C16

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT
SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE.
PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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DRAWN BY:

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APPROVED BY:

DATE: 5.21.97

3mm, 940nm INFRARED EMITTER, BLUE TRANSPARENT LENS.

BC

PAGE: 1 OF 1
SCALE: N/A