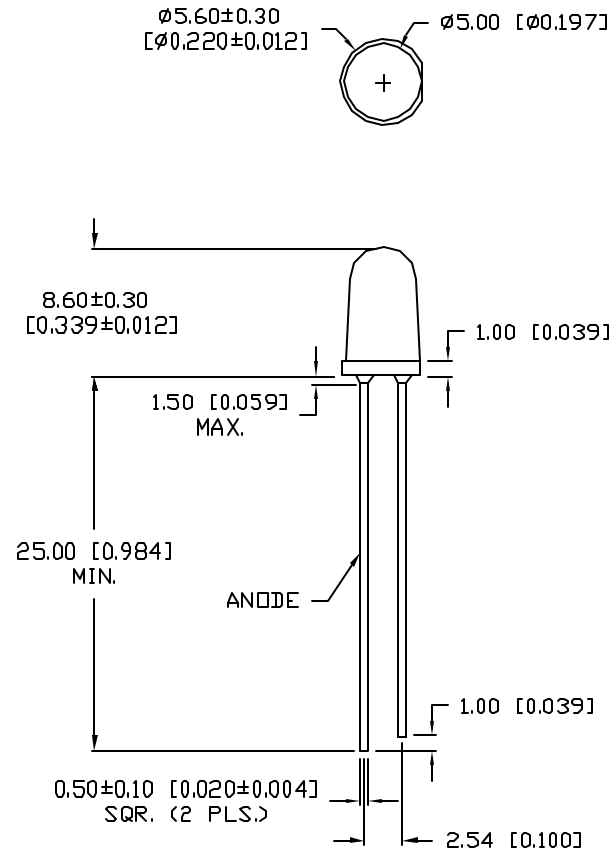


UNCONTROLLED DOCUMENT

PART NUMBER  
OED-CL50593C22

REV.  
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN IN 3D.	12.19.02



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		875		nm	
SPECTRAL BANDWIDTH		80		nm	
FORWARD VOLTAGE		1.3	1.6	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=10\mu\text{A}$
RADIANT INTENSITY	11	21		mW/str	$I_f=20\text{mA}$
HALF ANGLE		20		deg	
EPOXY LENS FINISH: WATER CLEAR					

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	50	mA
POWER DISSIPATION	100	mW
DERATE FROM $25^\circ\text{C}$	-1.2	mW/ $^\circ\text{C}$
OPERATING TEMPERATURE	-25 TO +85	$^\circ\text{C}$
STORAGE TEMPERATURE	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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

\*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= <sup>+0.00</sup> -0.00 DECIMAL PRECISION MAX= <sup>+0.00</sup> -0.00 DECIMAL PRECISION

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REV. A	PART NUMBER OED-CL50593C22
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T-5mm (T-1 3/4) 875nm INFRARED LED,  
WATER CLEAR LENS.

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.

DRAWN BY: BC	CHECKED BY:	APPROVED BY:	DATE: 12.29.97
			PAGE: 1 OF 1
			SCALE: N/A