

UNCONTROLLED DOCUMENT

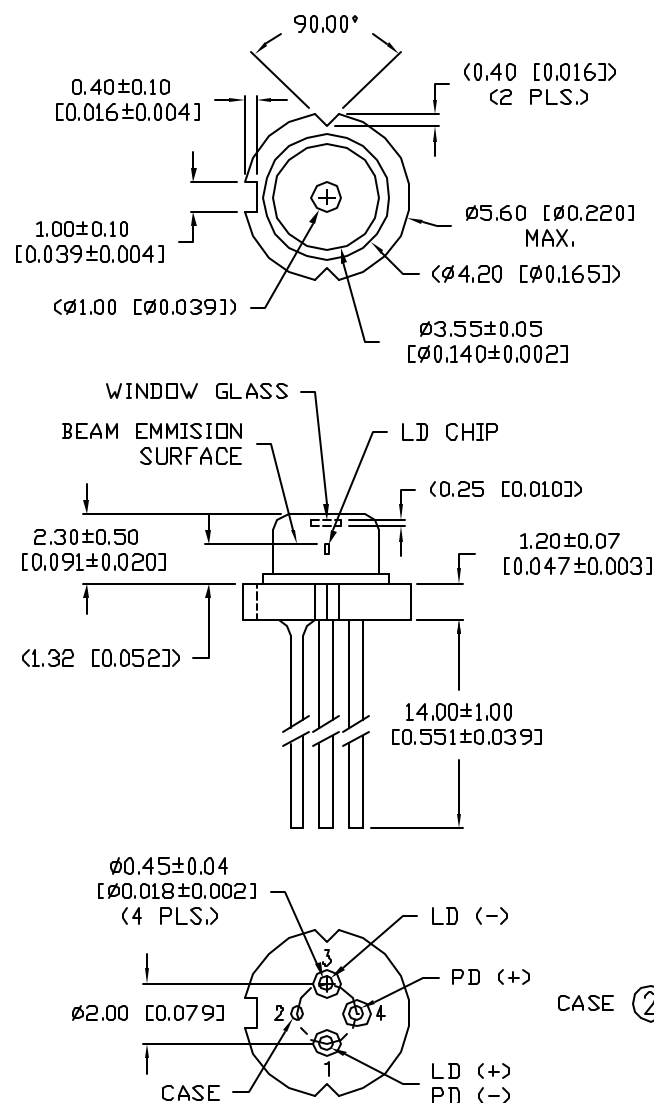
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PART NUMBER

REV.

OED-LDC13001EAD

PRELIMINARY IN P/N DIR



ELECTRO-OPTICAL CHARACTERISTICS (Tc=25°C), Po=5mW

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST COND	UNITS
LASING WAVELENGTH	λ	1290	1310	1330	CW	nm
SPECTRAL WIDTH	$\Delta\lambda$		2	5	CW	nm
FORWARD VOLTAGE	Vf		1.2	1.5	CW	V
THRESHOLD CURRENT	Ith		12	20		mA
PD MONITOR CURRENT	Im	100			CW, Vr(PD)=2V	μA
PD DARK CURRENT	I(DARK)			0.1	Vr(PD)=5V	μA
PD CAPACITANCE	Ct		6	15	Vr(PD)=5V, f=1MHz	pF
RISE TIME	Tr			0.5	CW, Ibias=Ith	ns
FALL TIME	Tf			0.5	10-90%	ns
SLOPE EFFICIENCY		0.3	0.35			mW/mA
BEAM DIVERGENCE	θ		20		CW	deg.
	θ_L		40		FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	Po	10(CW)	mW
LD REVERSE VOLTAGE	Vr(LD)	2	V
PD REVERSE VOLTAGE	Vr(PD)	15	V
PD FORWARD CURRENT	If(PD)	1.0	mA
OPERATING TEMP.	Top	-40 TO +85	°C
STORAGE TEMP.	Tstg	-40 TO +85	°C

WARNING
INVISIBLE LASER RADIATION,
AVOID DIRECT EXPOSURE TO BEAM.

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

*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 -0.00, MAX.=+0.00 -DECIMAL PRECISION

REV.

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1310nm LASER DIODE, TO-18 (Ø5.6mm) PACKAGE,
10mW OUTPUT.

CONFIDENTIAL INFORMATION

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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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SCALE: N/A