



ELECTRO-OPTICAL CHARACTERISTICS (T<sub>c</sub>=25°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST COND	UNITS
LASING WAVELENGTH	$\lambda$	655	658	660	P <sub>o</sub> =50mW	nm
THRESHOLD CURRENT	I <sub>th</sub>		40	70	CW	mA
OPERATING CURRENT	I <sub>op</sub>		125	150	P <sub>o</sub> =50mW	mA
OPERATING VOLTAGE	V <sub>op</sub>		2.5	3.0	P <sub>o</sub> =50mW	V
SLOPE EFFICIENCY			0.7			W/A
MONITORING CURRENT	I <sub>m</sub>	0.05	0.5	2	P <sub>o</sub> =50mW	mA
BEAM DIVERGENCE:	$\theta$	6	8	12	P <sub>o</sub> =50mW	deg.
	$\theta_L$	17	22	26	FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (T<sub>c</sub>=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	P <sub>a</sub>	55	mW
LD REVERSE VOLTAGE	V <sub>R(LD)</sub>	2	V
PD REVERSE VOLTAGE	V <sub>R(PD)</sub>	30	V
OPERATING TEMP.	T <sub>op</sub>	- 10 TO + 40	°C
STORAGE TEMP.	T <sub>stg</sub>	- 40 TO + 80	°C

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

REV.

PART NUMBER

OED-LDH66003E

660nm LASER DIODE, TO-18 PACKAGE,  
SUPER POWER, 50mW OUTPUT.

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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