LE-0002



- High power 1320nm LED
- Ideal for local area networks

Performance Highlights

- Minimum 50µW into 62.5/125µm fibre at $\rm I_{\rm F}{=}100mA$ Peak wavelength at 1320nm
- Bandwidth of 125MHz

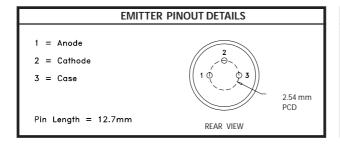
LIMITING VALUES	SYMBOL	VALUE	UNITS
Continuous forward current	I _F	150	mA
Reverse voltage	$V_{_{RL}}$	2.0	V
Operating temperature	T _{amb}	-40 to +85	°C
Storage temperature	T _{stg}	-40 to +125	°C
Soldering temperature 2mm from case for 10s	T _{sld}	260	°C

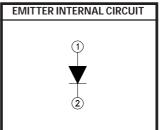
THERMAL CHARACTERISTICS	SYMBOL	VALUE	UNITS
Optical power temperature coefficient	dP/dT _j	-0.03 (typ)	dB/°C
Wavelength temperature coefficient	dλ/dT _j	0.38 (typ)	nm/°C

OPTICAL/ELECTRICAL CHARACTERISTICS	SYMBOL	MIN	ТҮР	MAX	UNITS	TEST CONDITION
Power (50/125µm NA 0.20) (62.5/125µm NA 0.27)	P _F	25 50	35 75		μW	I _F = 100mA DC
Peak emission wavelength	$\lambda_{_{\mathrm{P}}}$	1290	1320	1350	nm	I _F = 100 mA
Spectral bandwidth (FWHM)	Δλ			170	nm	I _F = 100 mA
Rise / fall time (10% to 90%)	t _{Lr} / t _{Lf}		2.5	4	ns	I _F = 100 mA
Bandwidth	f _c		125		MHz	I _F = 100 mA
Forward voltage	V _F		1.4	1.7	V	I _F = 100 mA
Capacitance	С		15		pF	$V_R = 0V, f = 1MHz$
Reverse current	I _R			2	μΑ	$V_R = 2V$

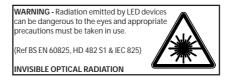
All values apply at a temperature of 25°C







NOTES: The device is very susceptible to damage by electrostatic discharge.



NOTES:

- 1) Standard pin orientation aligns pin 2 with the receptacle keyway unless a custom orientation is requested.
- 2) The heatsink tab is removed to allow alignment in some receptacles.
- **3)** Usable pin length will vary dependant on choice of receptacle. If pin length is important please contact Afonics before placing an order.