1310 nm BOA – High power 400 mW model

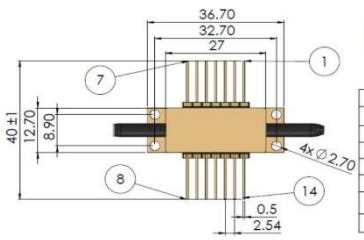
Model 3b : PM single mode fiber – Butterfly package

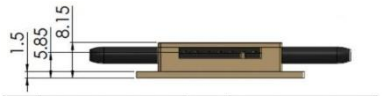
Reference: SOA-3b-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Amplification/Modulation Wavelength	nm	1260	-	1320
Operating Current (CW mode ; Pin = 20 dBm)	A	-	2.0	3.0
Max Output Power (1310 nm ; CW mode)	dBm | mW	25.4 | 350	26 | 400	-
Max Input Power	dBm	-	-	20
Operating Voltage	V	-	2	2.4
Small Signal Gain (Pin = -20 dBm)	dB	24	30	-
Gain Ripple (RMS) @ Iop-CW	dB	-	0.1	1
Extinction Ratio (Pin < -5 dBm)*	dB	-	70	-
Noise Figure (NF)	dB	-	5	-
TEC Current (25°C/case@65°C)	A	-	-	3
TEC Voltage (25°C/case@65°C)	V	-	-	4
Internal Thermistor (25°C)	kOhm	9.5	10.0	10.5
Fiber Type (eq)	/	Panda PM1300		
Fiber Coating Diameter	µm	250 µm		
Connectors	/	FC/APC		
Storage Temperature	°C	-40	-	85
Operating Case Temperature	°C	0	-	70
Operating Chip Temperature	°C	+15	-	+45
Laser Diode Reverse Voltage	V	-	-	2
Soldering Temperature | Time	°C | s	-	-	260 | 10
PER	dB	15	20	-

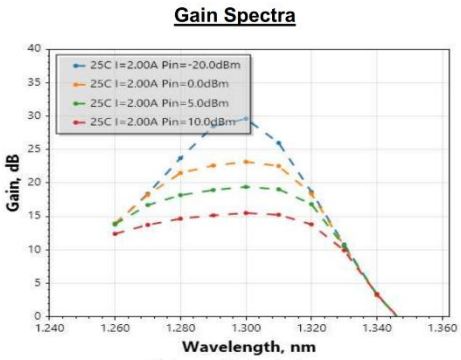
*Even for use in modulation mode, it is recommended to use the product with low input power and high gain.

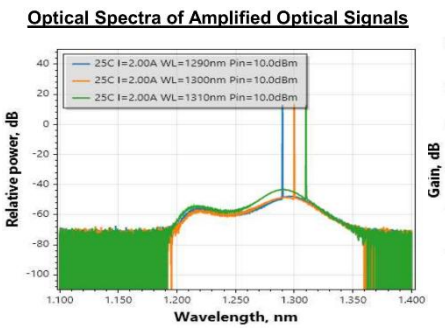
Form factor & SOA pinning:

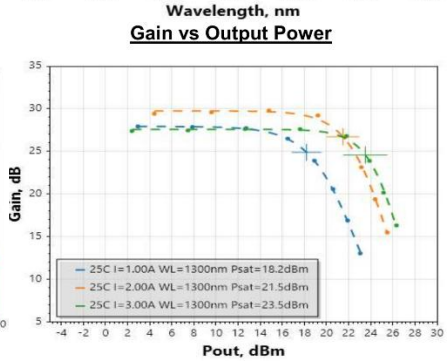




#	Pin identification	#	Pin identification
1	TEC "+"	8	-
2	Thermistor	9	-
3	-	10	SOA anode "+"
4	-	11	SOA cathode "-"
5	Thermistor	12	-
6	-	13	Case
7	-	14	TEC "-"







AeroDIODE - Institut d'optique d'Aquitaine - Rue François Mitterrand
33400 Talence - France - Tél. : +33 (0)6 27 69 41 52
contact.aerodiode@aerodiode.com - **www.aerodiode.com**
SIRET 880 329 636 00018 - N° TVA intracommunautaire : FR 87880329636