

1310 nm BOA – High power 400 mW model

Model 3b: PM single mode fiber / Butterfly package

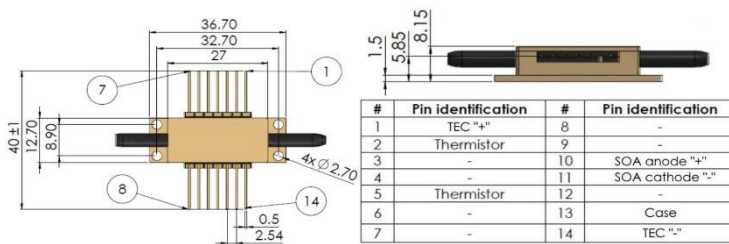
Reference: SOA-3b-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Amplification/Modulation Wavelength	nm	1260		1320
Operating Current (CW mode; Pin: 10dBm)	A		2.0	3.0
Operating Current (Pulse mode*)	A		4.0	
Max output power (1310 nm-CW mode)	mW/dBm	350/25.4	400/26	
Max output power (1310 nm-Pulse mode**)	mW/dBm		500/27	
Max Input power	dBm			10
Operating Voltage	V		2	2.4
Small signal gain (Pin = -20 dBm)	dB	24	30	
Gain Ripple (RMS) @ I _{op} -CW	dB		0.1	1
Extinction ratio (Pin < -5 dBm)**	dB		70	
Noise Figure (NF)	dB		5	
TEC current (25°/case@65°)	A			3
TEC voltage (25°/case@65°)	V			4
Internal thermistor (25°)	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	

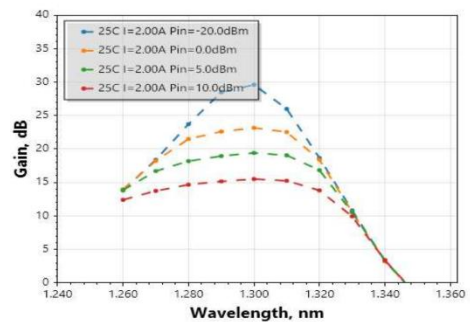
*With AeroDIODE pulsed drivers only and input power limited <10 dBm

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

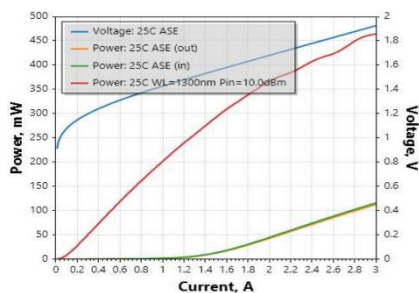
Form factor & SOA pinning:



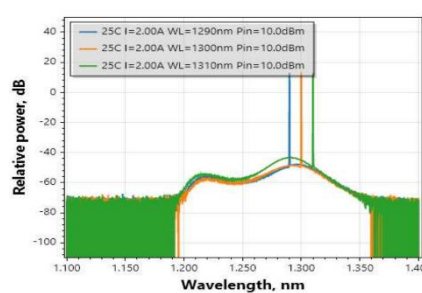
Gain Spectra



Output Power vs Operating Current



Optical Spectra of Amplified Optical Signals



Gain vs Output Power

