1030 nm SOA

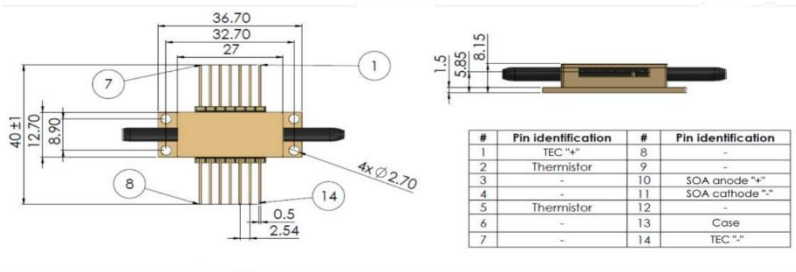
Model 2a : 1030nm - PM singlemode fiber - Butterfly package

Reference: SOA-2a-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Amplification/Modulation Wavelength	nm	1020	1035	1050
Operating Current (CW mode)	mA	-	450	500
Operating Current (Pulse mode*)	mA	-	900	1000
Output Power (CW mode)	dBm | mW	-	22 | 160	-
Output Power (Pulse mode*)	dBm | mW	-	24.5 | 300	-
Input Power**	dBm	-	-	5
Operating Voltage	V	-	1.6	1.9
Small signal gain (@ 500mA)	dB	34	37	-
Gain Ripple (RMS) @ Iop-CW	dB	-	0.06	0.3
Extinction Ratio (Pin = -25/-5dBm)	dB	50	75	-
Noise Figure (NF)	dB	-	8	-
TEC Current	A	-	-	3
TEC Voltage	V	-	-	4
Internal Thermistor (25°C) – (Beta = 3435K)	kOhm	-	10	-
Fiber Type / Buffer	/	PM980 / 250µm		
Connectors	/	FC/APC		
Fiber Bend Radius	cm	3	-	-
Storage Temperature	°C	-40	-	85
Operating Case Temperature	°C	0	-	70
Operating Chip Temperature	°C	15	25	45
Laser Diode Reverse Voltage	V	-	-	2
Soldering Temperature | Time	°C | s	-	-	300 | 10

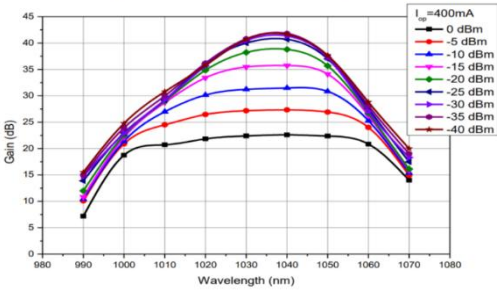
*With AeroDIODE pulsed drivers only and input power limited <5 dBm.
**Even for use in modulation mode, it is recommended to use the product with low input power and high gain.

Form factor and SOA pinning:

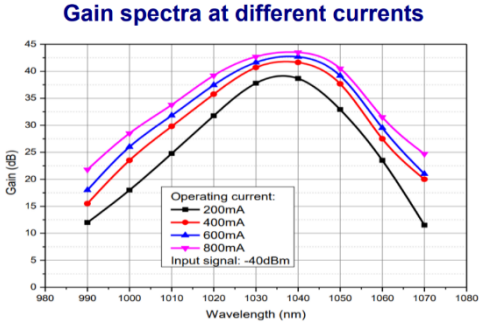


#	Pin identification	#	Pin identification
1	TEC "+"	8	-
2	Thermistor	9	-
3	-	10	SOA anode "+"
4	-	11	SOA cathode "-"
5	Thermistor	12	-
6	-	13	Case
7	-	14	TEC "-"

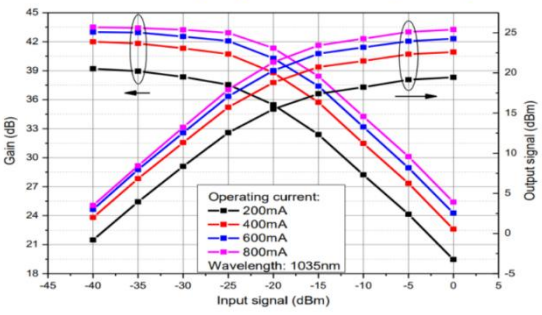
Gain spectra at different input signals



Gain spectra at different currents



Gain and Output power vs. Input signal



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