

INPHENIX

Evaluation Board for Mini-Semiconductor Optical Amplifiers (Type D)

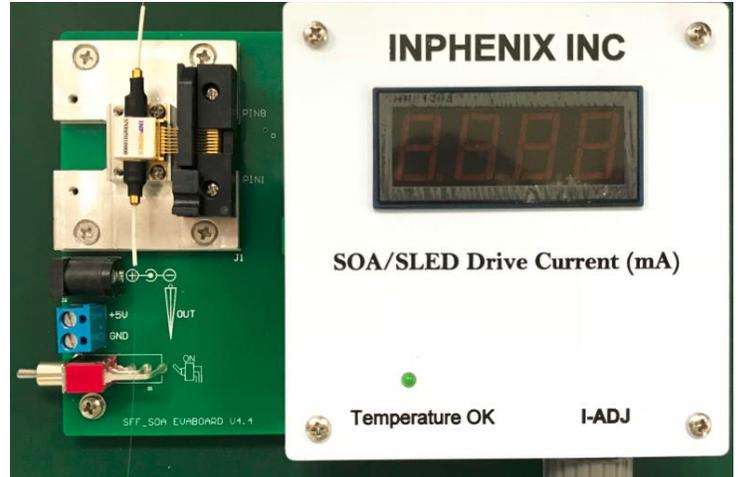
IPEVM1015

Feature

- Adjustable Forward Current up to 250mA*
- Temperature Controlled to 25°C
- Single +5V Power Supply Input

Applications

- Evaluation of InPhenix’s Mini-SOA Devices



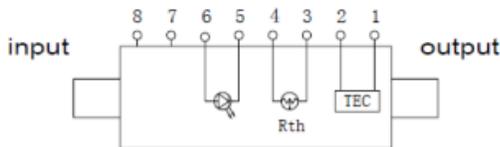
Performance Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit
SOA Forward Current	I_F	-	200	250*	mA
Chip Temperature	T_C	-	25	-	°C
TEC Current	I_{TEC}	-	0.4	1.2	A
Power Consumption	P	-	4	7	W
Physical Dimensions		140 × 118			mm × mm
Connection	See Pin Assignment Table				

* Base this setting upon each Mini-SOA (Type D) Device’s maximum rated current.

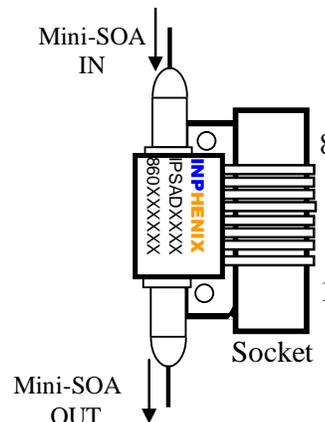
Butterfly Socket Pin Assignment

Pin	8-pin Butterfly Package
1	TEC Cathode
2	TEC Anode
3	Thermistor
4	Thermistor
5	SOA Cathode
6	SOA Anode
7	NC
8	NC



Power Port Pin Assignment

Pin	Connection
+5V	+5V DC+
GND	GND



Mini-SOA Connection



Operation Instructions

- 1) Connect the customer provided universal power AC/DC adaptor (output +5V) to the DC jack on the board, and make sure the power switch is at the OFF position.
- 2) Mount Mini-SOA into Mini-SOA socket and screw it down to ensure good contact with heat sink.
- 3) Tune the knob counterclockwise fully until it stops to ensure the drive current is 0 mA when the power becomes turned on.
- 4) Turn on the power switch. The Temperature OK indicator will blink for a second and remain on. The green LED indicates operation is normal. Please check the Mini-SOA connection if the LED is off or abnormal.
- 5) Tune the knob clockwise to increase the drive current or counterclockwise to decrease drive current.
- 6) When testing is finished, decrease the current to 0 mA and turn off the power before detaching the Mini-SOA.

Option 1:

Order +5V/2A Universal Power (100VAC-240VAC) AC/DC Adaptor from InPhenix.

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