INPHENIX

Evaluation Board Semiconductor Optical Amplifiers (SOAs)

IPEVM1010

Feature

- Adjustable Forward Current up to 650mA*
- Temperature Controlled to 25°C
- Single +5V Power Supply Input

Applications

- Evaluation of InPhenix's SOA Devices

Performance Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit
SOA Forward Current	I_F	-	350	650*	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			

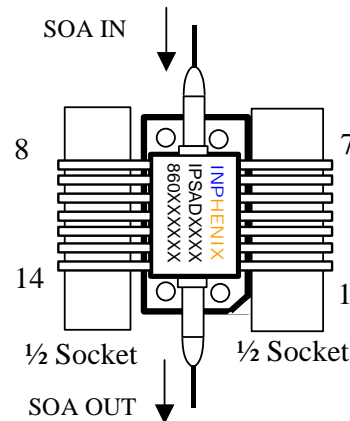*** Base this setting upon each SOA Device's maximum rated current.**

Butterfly Socket Pin Assignment

Pin	14-pin Butterfly Package
1	TEC+
2	Thermistor
3	Same as 2
4	Same as 5
5	Thermistor
6	NC
7	NC
8	NC
9	NC
10	SOA+
11	SOA-
12	NC
13	NC
14	TEC-

Power Port Pin Assignment

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

SOA Connection

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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 SOA into 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 0mA 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 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 0mA and turn off the power before detaching the SOA.

Option 1:
Order +5V/2A Universal Power (100VAC-240VAC) AC/DC Adaptor from InPhenix.

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