# Semiconductor Optical Amplifier Device (In-Line Type)

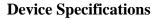
### **IPSAD1201 (1285nm)**

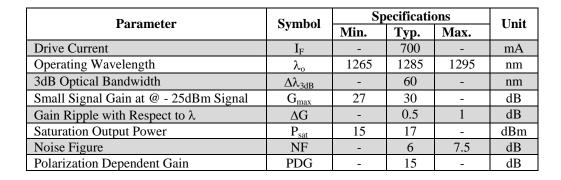
#### **Features**

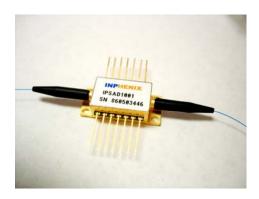
- Wide Optical Bandwidth
- High Gain
- Low Gain Ripple
- MQW or Bulk Structure

# Applications

- In-Line Amplifier
- Loss Compensation





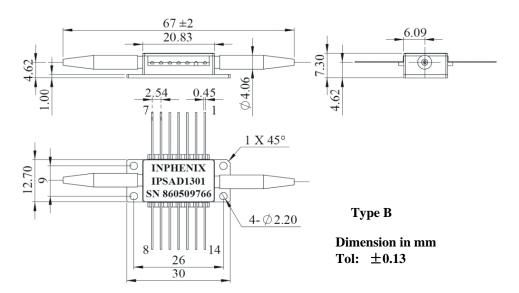




## **Absolute Maximum Ratings**

Parameter	Min.	Max.	Unit		
Operating Temperature	- 20	70	°C		
Storage Temperature	- 40	85	°C		
SOA Forward Current	-	900	mA		
SOA Reverse Voltage	-	2.5	V		
TEC Drive Current	-	1.5	A		
TEC Drive Voltage	=	3.6	V		
Thermistor Resistance	10kΩ @ 25°C				
SOA Chip Temperature Setting	25°C				
Fiber Type	SMF/PMF/MMF ClearCurve Fiber				
Fiber Jacket	250µm tight buffer with/without 900µm loose				
	tube, or 900µm tight buffer				
Package	14-pin Butterfly Type B or C				

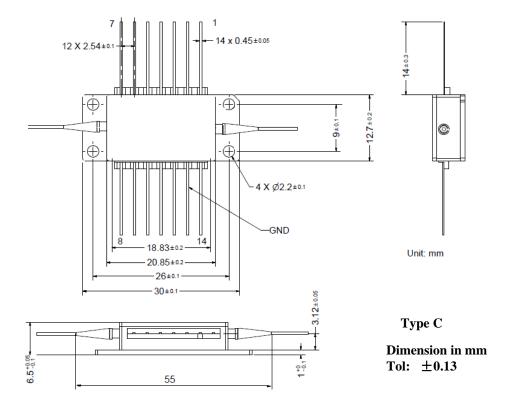
# **Package Dimensions**



### **Pin Definition**

Pin	14-pin Butterfly		
1	TEC(+)		
2	NC		
3	Thermistor *		
4	Thermistor *		
5	NC		
6	NC		
7	NC		
8	NC		
9	NC		
10	SOA(+)		
11	SOA(-)		
12	NC		
13	Case		
14	TEC(-)		

Option: Pin 2 & Pin 5 for thermistor



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### **Part Numbering System**

	IPS	SADXXXX	$\Box$		
Model: IPSADXXXX: SOA	Device				
Package: 5: 14-pin Butterfly, T 6: 14-pin Butterfly, T	• •				
Fiber Type: 1: SM fiber 2: PM fiber	3: MM fiber 8: SM ClearC	Curve fiber*			
<b>Jacket Type:</b> 1: 900μm 2: 250μm					
<b>Connector Type:</b>					
0: No Connectors 3: FC/APC 4: FC/UPC 7: SC/APC					

**Example:** IPSAD1301-5110: 1310nm SOA in 14-pin Butterfly Package with  $900\mu m$  SM Fiber with no Connectors.

\* SM ClearCurve fiber is not available on IPSAD0801, IPSAD0901 and IPSAD0902 products.

### **Corporate Office**

8: SC/UPC

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