

**Features:**

- more than 20 dB fiber-to-fiber optical gain
- 10 dBm ASE power while keeping very low spectral ripple
- 20 nm gain bandwidth (-3 dB)

**Package:** butterfly (DBUT)

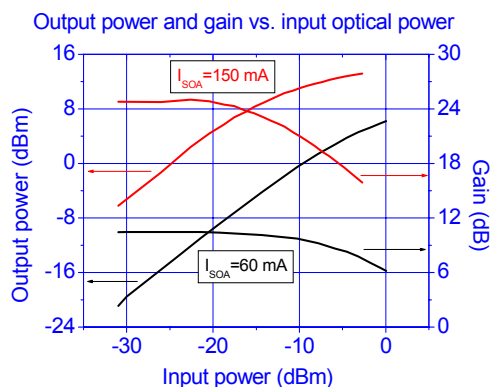
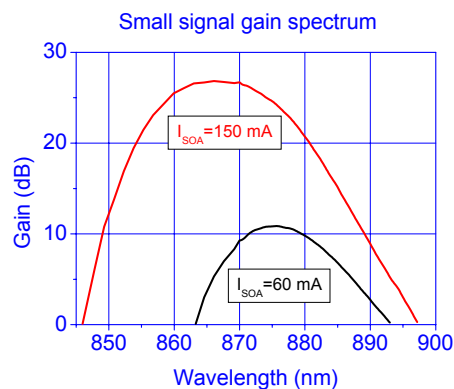
**Additional and customized:**

- PM fiber pigtails
- FC/APC terminated pigtails

**Specifications**  
(Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Typ.	Max.
Forward current, mA		200
Forward voltage, V		2.2
ASE output power ex SM fiber ( $P_{in}=0$ ), dBm	10.0	
Central wavelength $\lambda_c$ , nm – SOA-382-800	800	
Central wavelength $\lambda_c$ , nm – SOA-382-870	870	
-3 dB optical gain bandwidth, nm	20	
Gain ripple, dB	$\leq 0.1$	0.2
Small signal gain, dB	25	
Saturation output power, dBm	6.0	
Polarization dependent gain, dB	10	

**PERFORMANCE EXAMPLES**  
(SOA-382-870)



**Marking:**

**SOA-382-800-SM or SOA-382-870-SM.**

All specifications are subject to change without notice.