SOA Driver

CW or Pulsed High Speed - High Dynamic range





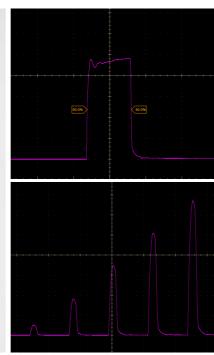
SOA Driver

Do I need a power boost, an optical switch, a fullrange VOA or a high dynamic range ns-speed fiber modulator?

SOA (Semicondutor Optical Amplifier) act as multifunctional devices. When used as intensity modulators, they become a smart alternative to AOM (Acousto Optic Modulators) or EOM (Electro Optics Modulators).

SOA-Std





Key features

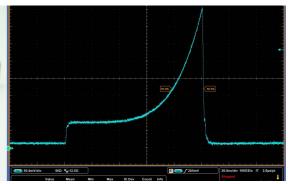
- When used with key pulsed electronic, SOA is able to act as an optical modulator it becomes a lossless, low noise, high speed, high dynamic range, high extinction ratio and highly polarizing solution.
- User-set pulsewidth from 0.5 ns to CW; 3 pulse generation mechanisms (internal/external)
- Timing Jitter down to 8 ps; Rep rate up to 250 MHz
- Adjustable safety limits, current levels (average/peak), SOA temperature, etc.
- All versions can be controlled either through USB link or through an analog signal.
- 1 version also includes 3 pulse-delay-generators for external synchronizations (SOA-Shape).
- Many OEM functionalities for integration compatibility contact us for more information
- Most versions show fast delivery for immediate customer use.
- SOA components from 750 to 1700 nm can be sourced from us or directly from key suppliers.

Technical Specifications

SOA-Shape

SOA-shape pulse





New! SOA-HPP



Specifications

Version:	SOA-std	SOA-HPP (High Pulse Performance)	SOA-Shape (Pulse shaping)
CW or Pulsed ?	CW or Pulsed	CW and/or Pulsed	Pulsed only
Output current (CW regime)	800 mA	2000 mA	-
Output current (Pulse regime)	1500 mA	4000 mA	1600 mA
Extinction ratio (dB,typ) (SOA choice dependant) (1)	>50 dB		>40 dB
Switching speed (typ) (SOA choice dependant) (1)	~1 ns	~0.5 ns	~2 ns
Dynamic Range (up to) [1]	60 dB	60 dB	48 dB
Trigger-to-pulse Jitter	<20 ps	<8 ps	<2 ns
Pulse shaping	no	no	yes
Max repetition rate	10 MHz	250 MHz	20 MHz
Max Output Power (SOA choice dependant) (1)	From 20 to 100 mW (more than 500 mW have been measured in some pulsed configuration)		
Interface/compatibilities and Libraries	USB - Windows 7/10 - DLLs - Hexa - Labview - Python		
Dimensions	130*110*29	170*107*27.5	162*92*27
Operating Voltage (AC/DC converter included)	12 V	24 V	24 V
(1) Contact us for technical advices to reach ontimal performances			

⁽¹⁾Contact us for technical advices to reach optimal performances

SOA-std GUI Interface

