

SOA Driver

电话: 0755-84870203

邮箱: sales@highlightoptics.com

CW or Pulsed High Speed - High Dynamic range





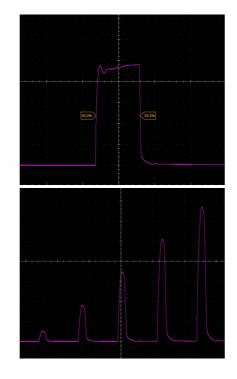
SOA Driver

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 & SOA-HPP





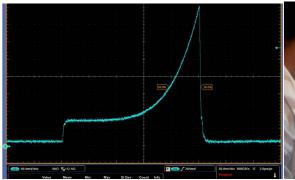
Key features

- 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





Aerodiode multiboard system



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	1000 mA	-
Output current (Pulse regime)	1500 mA	3500 mA	1600 mA
Extinction ratio (dB,typ) [SOA choice dependant] [1]	>50 dB		>40 dB
Switching speed (typ) (SOA choice dependant) (1)	~1 ns		~2 ns
Dynamic Range (up to) (1)	60 dB		48 dB
Trigger-to-pulse Jitter	<20 ps	<8 ps	<2 ns
Pulse shaping	no		yes
CW offset (in pulse mode)	no	yes	no
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		
Operating Voltage (AC/DC converter included)	12 V		24 V

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

SOA-std GUI Interface

