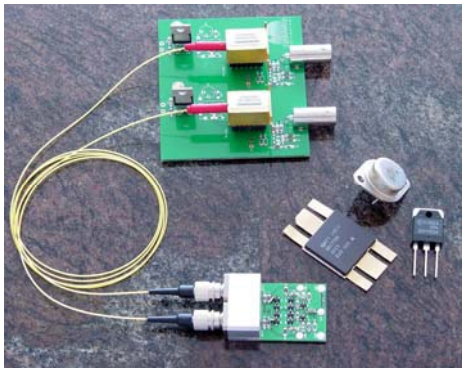
OTC Technology

Taking Current To The Extreme

OGD-2A Optically Controlled Gate Driver



- **Complete galvanic isolation**
- **Non-linear gate driver circuit ensures noise immunity**
- **2 amps peak drive current**
- **Current rise-time of <200ns into 30 nF (16 volt swing)**
- **Repetition frequency from single-shot to 25 kHz**

The OGD-2A is an optical gate driver system specifically designed to drive silicon IGBTs and MOSFETs. In addition this unit can drive various SiC devices such as VJFETs, Bipolars and MOSFETs. This technology includes non-linear circuitry that is ideal for ultra-high noise immunity levels. High-temperature versions are currently being developed with greater than 200 degrees operation. Standard models can sink and source 2 amps peak with typical rise and fall times of 200 ns into a 30 nF load switching 16 volts.

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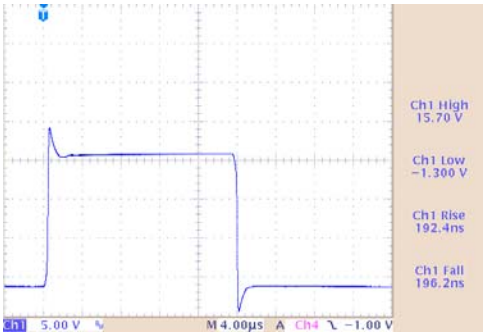
Specifications

Parameter	Value
Pulse Output Current	
Amplitude Range	2 Amps peak[1]
Pulse Rise Time	< 200ns
Pulse Recurrence Frequency Range	25 kHz (max)
Jitter	< 400 ps
Trigger Input	
Amplitude	TTL/CMOS 0-5 volts 50 Ω
Pulse Width	> 200 ns
Connectors	BNC
General	
Input Power	+15 volts
Dimensions (H X W X D)	
Specifications are subject to change without notice	

Voltage Across a 30 nF Load



<200 ns Rise Time, <200 ns Fall Time

4 µs/div horizontal scale,5 volts/div vertical scale

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[1] 30 nF load