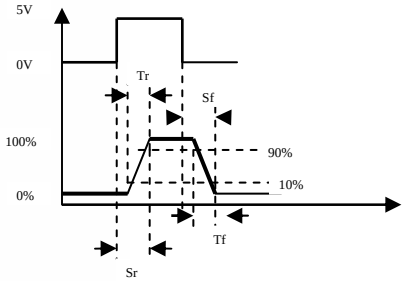
DC-5KHz Driver for NanoSpeed™ Switch

(patent pending)

Product Description

The NS Switch driver provides driving signals for the NS series solid state switches. The push-pull output design ensures fast switching time for both rising and falling edges, and it is especially suitable for driving capacitive Switch loads.

The standard driver controls one individual switch. Drivers that control multiple switches also are available, please call Sales at (781) 935-1200 for more information.



Features

- High speed
- High output voltage
- Wide input voltage range
- TTL/CMOS control
- Push-Pull output design
- Low power consumption
- Compact and low cost

Performance Specifications

Specs	Min	Typical	Max	Unit
Rise Time (Tr)[1]		85	100	ns
Fall Time (Tf)[2]		85	100	ns
Switch Speed (Rise) (Sr)[3]		200	250	ns
Switch Speed (Fall) (Sf)[4]		200	250	ns
Repetition Rate	DC		5	KHz
Pulse Width[5]	1.0		≥1.0	us
Control Input (TTL pulse)	0		5	V
Power Consumption[6]	0.6		2@5KHz	W
Power Supply		12		V
Operating Temperature	-5		70	℃
Storage Temperature	-40		80	℃
Electrical Connector	SMA			
Board Size	2.8(W)x2.0(D)x1(H)			Inch

Note:
1: Optic Intensity Change from 10% to 90% intuits;
2: Optic Intensity Change from 90% to 10% intuits;
3: Switch Speed (Rise): Duration from begin of electronic signal to end of optic intensity change;
4: Switch Speed (Fall): Duration from begin of electronic signal to end of optic intensity change;
5: Optical Waveform;
6: Dependent on repetition frequency;

Applications

- Optical Switch
- EO device driver
- Piezoelectric driver
- Pockel Cell driver

Revision: 060-15
02-04-09

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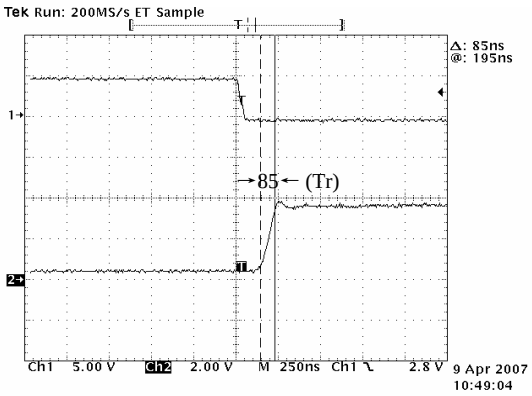
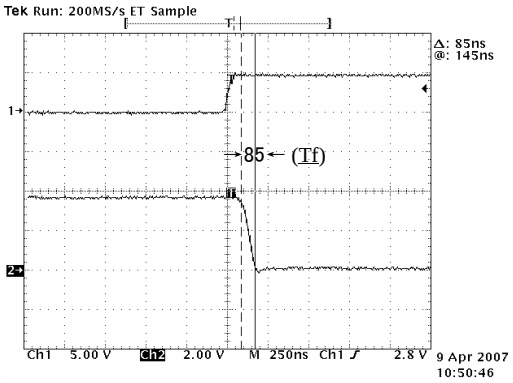
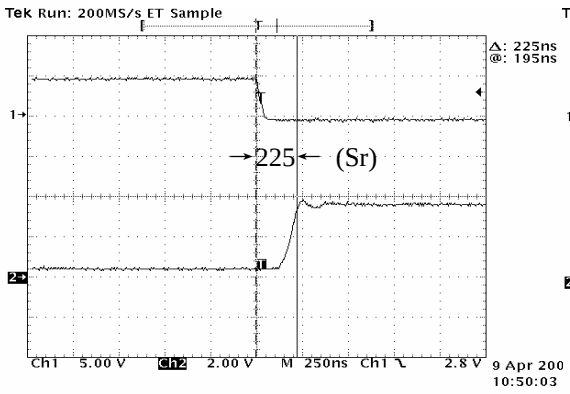
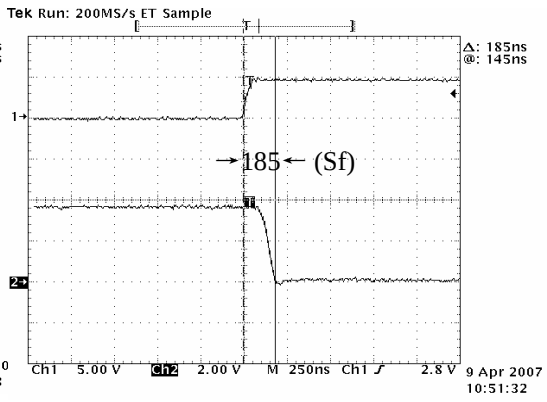
Response Measurement









Ordering Information

SWDR-	1 1	☐	2	☐	1	☐ ☐	☐
	Type	Repetition	Device	Size		# of Switch	Connector
		DC~5KHz=1 Special=0		2.8”x2.0”x1”=2 Special=0		1 switch=11 2 switches=22 3 switches=33 . . . 9 switches=99 Special=0	SMA=2 Special=0

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