

ExPD (Excellent Power Device)





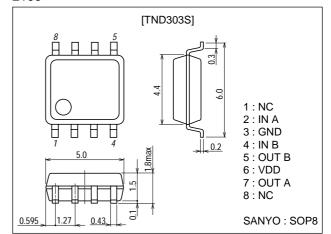
General Purpose Driver for PDP Sustain Pulse Drive, DC / AC Motor Drive, Switching Power Supply, DC / DC Converter Applications

Features

- · Inverter buffer.
- Monolithic structure(High voltage CMOS process adopted).
- · Withstand voltage of 25V is assured.
- Wide range of operating voltage: 4.5V to 25V.
- · Peak outpout current: 2A.
- Fast switching time(25ns typical at 1000pF load).
- Fully compatible input to TTL/CMOS.
 (V_{IH}=not more than 2.6V, at V_{DD}=4.5 to 25V)

Package Dimensions

unit : mm 2199



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Supply Voltage	V _{DD}		0 to 25	V
Input Voltage	VIN		GND-0.3 to V _{DD} +0.3	V
Allowable Power Dissipation	P _D max		0.3	W
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Operating Supply Voltage	VDD		4.5 to 25	V
Operating Temperature	Topr		-40 to +125	°C

Electrical Characteristics (AC Characteristics) at Ta=25°C, V_{DD}=18V, V_{IN}=5V

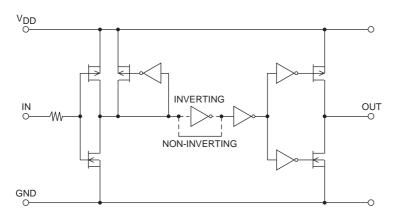
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	1 Office
Turn-On Rise Time	tr	CL=1000pF		20	35	ns
Turn-Off Fall Time	tf	C _L =1000pF		25	40	ns
Delay Time	t _D 1	C _L =1000pF		30	45	ns
	tD2	CL=1000pF		45	60	ns

- Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.
- SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

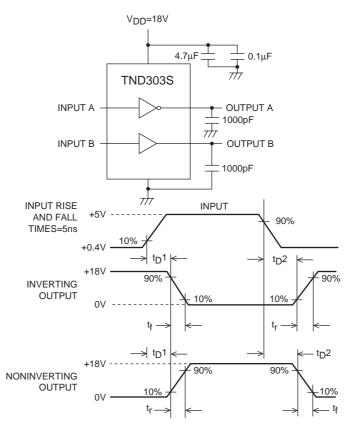
Electrical Characteristics (DC Characteristics) at Ta=25°C, VDD=4.5 to 25V

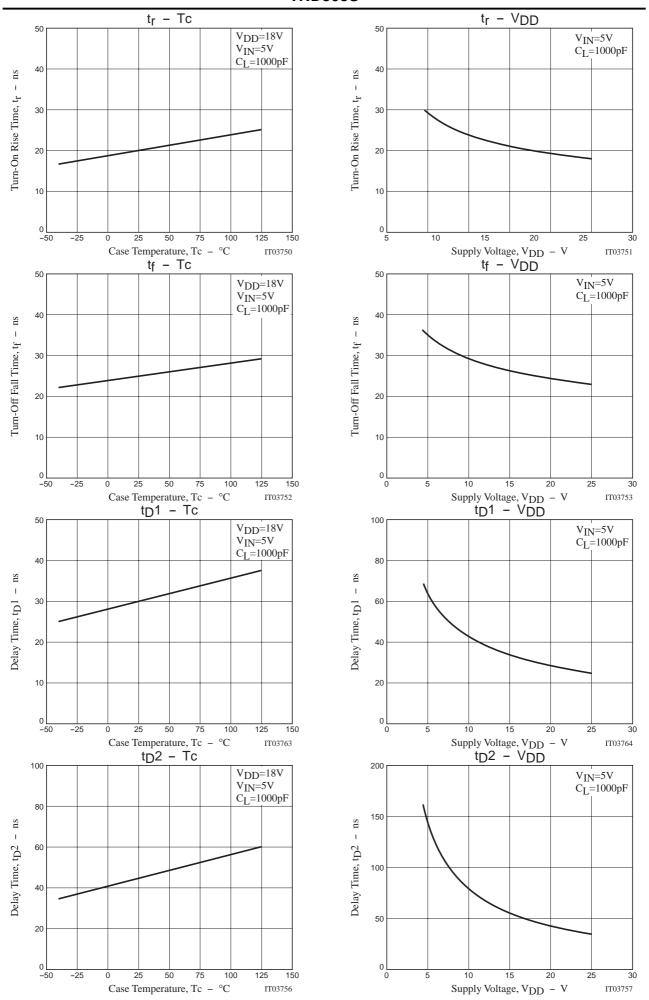
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	l Oliit
Logic "1" Input Voltage	VIH		2.6			V
Logic "0" Input Voltage	VIL				0.8	V
Input Bias Current	IIN	V _{IN} =0 or V _{DD}	-1		1	μΑ
High Level Output Voltage	Voн	I _O =0	V _{DD} -0.1			V
Low Level Output Voltage	VOL	IO=0			0.1	V
V _{DD} Supply Current	Isupp	V _{DD} =10V, V _{IN} =3V, (both inputs)		1.0	4.5	mA
		V _{DD} =10V, V _{IN} =0, (both inputs)			0.2	mA
Output High Short Circuit Pulsed Current	IO+	V _{DD} =18V, PW≤10μs, V _{OUT} =0		2.0		Α
Output Low Short Circuit Pulsed Current	lo-	V _{DD} =18V, PW≤10μs, V _{OUT} =18V		2.0		Α
Output On Resistance	ROUT	V _{DD} =18V, Iload=10mA, V _{OUT} ="H"		4	6	Ω
		V _{DD} =18V, Iload=10mA, V _{OUT} ="L"		3	5	Ω

Block Diagram

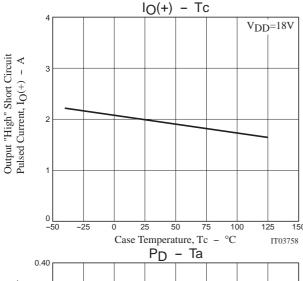


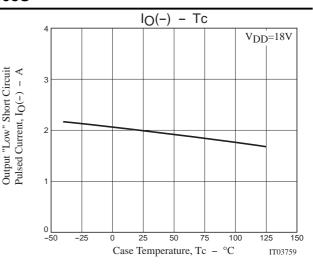
Switching Time Measuring Circuit

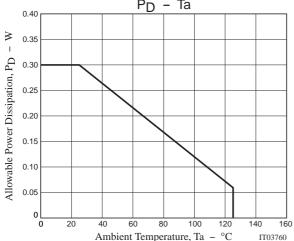




TND303S







- Specifications of any and all SANYO products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- SANYO Electric Co., Ltd. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with some probability. It is possible that these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits and error prevention circuits for safe design, redundant design, and structural design.
- In the event that any or all SANYO products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from the authorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of SANYO Electric Co., Ltd.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the SANYO product that you intend to use.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of June, 2003. Specifications and information herein are subject to change without notice.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Voltage Regulators - Switching Regulators category:

Click to view products by ON Semiconductor manufacturer:

Other Similar products are found below:

LX7186A 622616F 632259F FAN53610AUC33X MP2148GQD-33-P MP2374DS-LF-Z EN6310QA NCP81108MNTXG

NCP81109BMNTXG L79M05TL-E FAN48610BUC45X R3 LV5710GP-TE-L-H 430464BB 455605G AZ7500BMTR-E1 MIC23156
0YML-T5 MIC4930YFL-T5 MP8763GLE-P KE177614 418569H 455596X 511087D 030908C 063375FB 067501FB 099508GB

EP5358LUA NCP81102MNTXG 715715H FAN48611UC53X FAN53611AUC12X MAX809TTR MAX77596ETBC+T

MAX77596ETBB+T MAX16905AUE/V+ NCP6332CMTAATBG NCV890203MWTXG LX7176A MP2162AGQH-Z MAX17544ATP+T

MCP1623T-IMC MCP1642B-18IMC MCP1642BT-30I/MS MCP1642D-50IMC MCP1642D-50IMS MCP1642D-ADJIMC

MC34063LBBGEVB MCP1252T-33X50IMS MCP1259-EMF