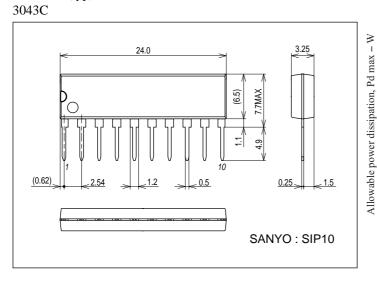
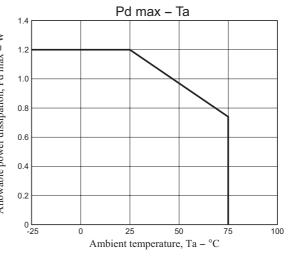
Electrical Characteristics at Ta = 25°C, $V_{CC} = 12V$

Doromotor	Symbol	Conditions	Ratings			l lait
Parameter		Conditions	min	typ	max	Unit
Input threshold voltage	Vth	R _L = ∞	1.1	1.3	1.5	V
Minimum input on-state current	I _{IN}	R _L = ∞		10	15	μΑ
Output voltage	V _O	$R_L = 60\Omega, V_Z = 7.4V$	6.6	7.2	7.4	V
Output leakage current	l _{OL}	Pins 5,6 GND, $R_L = \infty$		0.01	1.0	mA
Current drain	^I CC	Pins 5,6 GND, $R_L = \infty$	3	6	10	mA
Saturation voltage (upper)	Vsat1	I _{OUT} = 300mA		1.9	2.2	V
	Vsat1'	I _{OUT} = 500mA		1.9	2.3	V
Saturation voltage (lower)	Vsat2	I _{OUT} = 300mA		0.25	0.5	V
	Vsat2'	I _{OUT} = 500mA		0.4	0.65	V

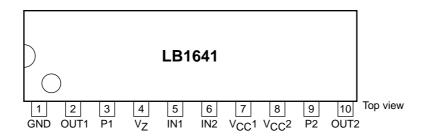
Package Dimensions

unit: mm (typ)





Pin Assignment

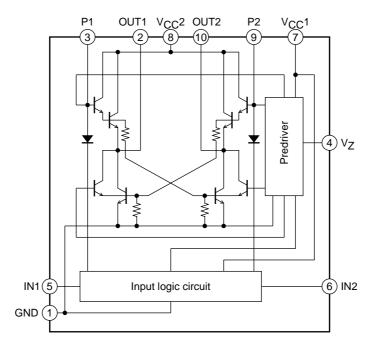


Truth Table

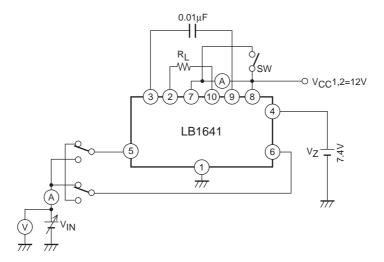
Input		Output		Operation	
IN1	IN2	IN3	IN4	Operation	
0	0	0	0	Braking	
1	0	1	0	Forward (reverse) drive	
0	1	0	1	Reverse (forward) drive	
1	1	0	0	Braking	

Input level 1 : 2.0V or greater 0 : 0.7V or less

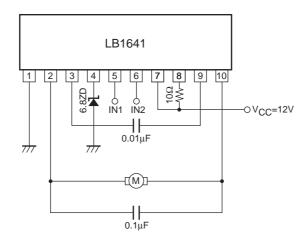
Block Diagram

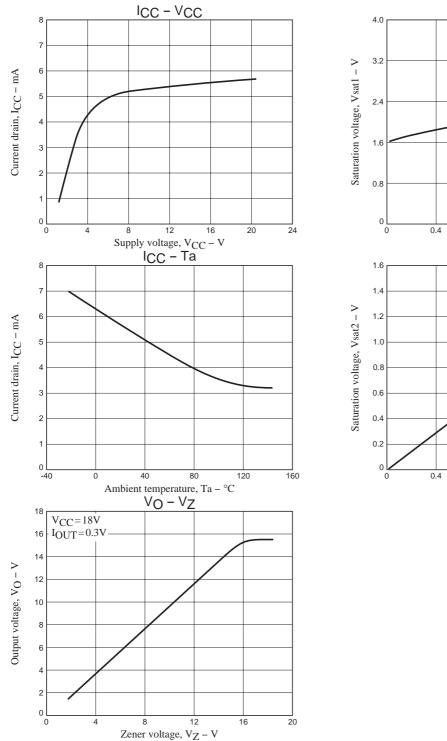


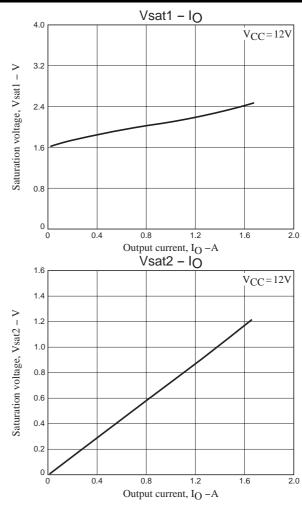
Test Circuit



Sample Application Circuit : 6V motor circuit







- SANYO Semiconductor Co.,Ltd. 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 Semiconductor Co.,Ltd. products described or contained herein.
- SANYO Semiconductor Co.,Ltd. strives to supply high-quality high-reliability products, however, any and all semiconductor products fail or malfunction with some probability. It is possible that these probabilistic failures or malfunction could give rise to accidents or events that could endanger human lives, trouble that could give rise to smoke or fire, or accidents 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 Semiconductor Co.,Ltd. products described or contained herein are controlled under any of applicable local export control laws and regulations, such products may require 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 consent of SANYO Semiconductor 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 Semiconductor Co.,Ltd. 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.
- Upon using the technical information or products described herein, neither warranty nor license shall be granted with regard to intellectual property rights or any other rights of SANYO Semiconductor Co.,Ltd. or any third party. SANYO Semiconductor Co.,Ltd. shall not be liable for any claim or suits with regard to a third party's intellectual property rights which has resulted from the use of the technical information and products mentioned above.

This catalog provides information as of December, 2008. Specifications and information herein are subject to change without notice.