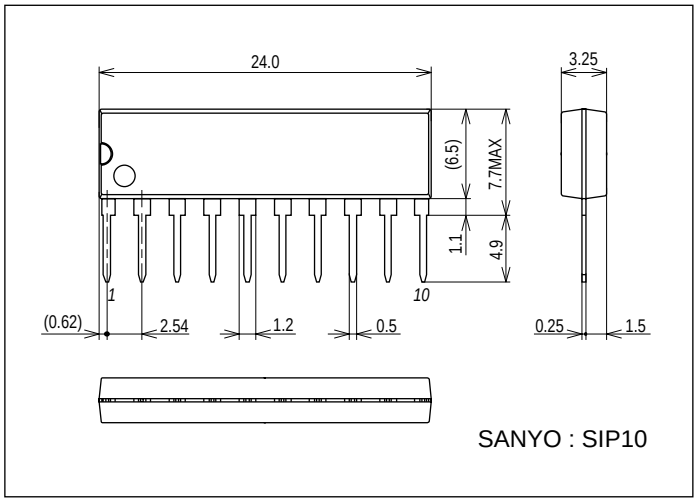
Electrical Characteristics at Ta = 25°C, V_{CC} = 12V

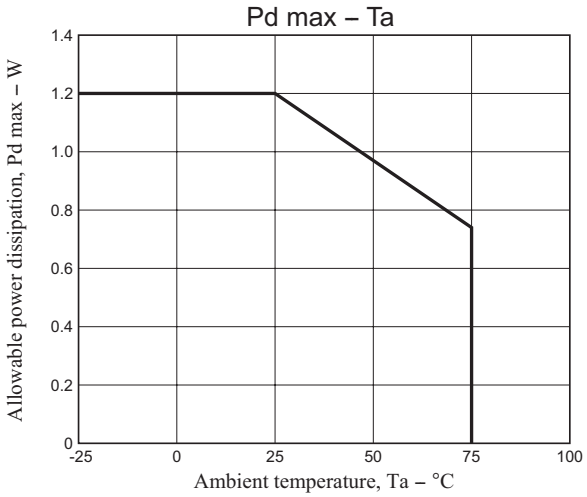
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input threshold voltage	Vth	R_L = ∞	1.1	1.3	1.5	V
Minimum input on-state current	I_{IN}	R_L = ∞		10	15	μA
Output voltage	V_O	R_L = 60Ω, V_Z = 7.4V	6.6	7.2	7.4	V
Output leakage current	I_{OL}	Pins 5,6 GND, R_L = ∞		0.01	1.0	mA
Current drain	I_{CC}	Pins 5,6 GND, R_L = ∞	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

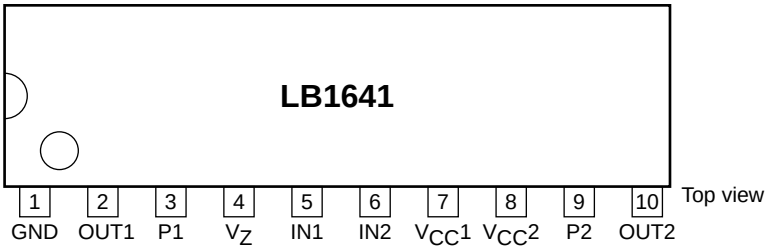
unit : mm (typ)

3043C





Pin Assignment



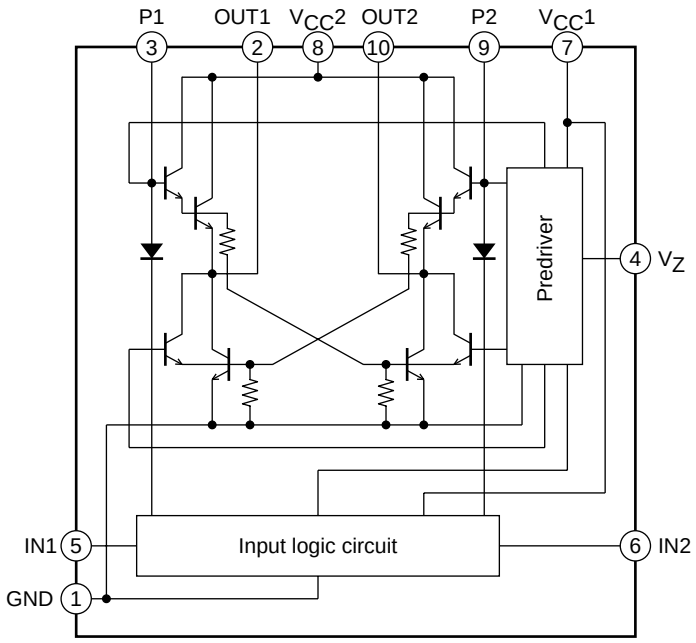
Truth Table

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

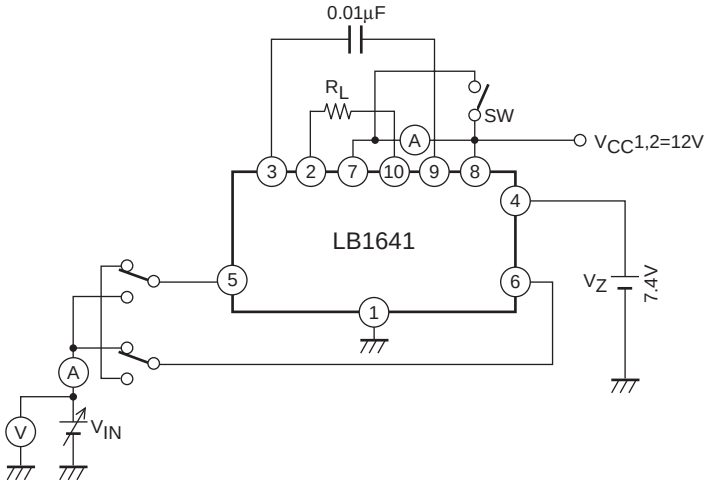
Input level 1 : 2.0V or greater

0 : 0.7V or less

Block Diagram



Test Circuit



Sample Application Circuit : 6V motor circuit