

No.863E

LB8050

Intermittent Windshield Wiper Controller

Applications

Intermittent window wiper, seat belt warning lamp, ajar door warning lamp, timer, Schmitt circuit

Features

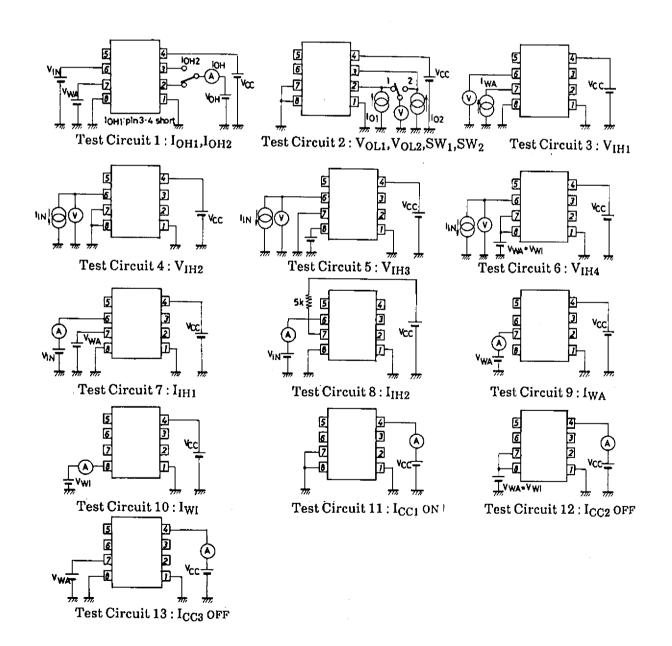
Performs all functions required for intermittent wipers.

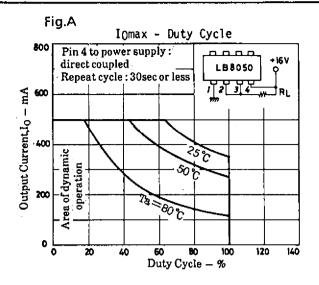
- · Any intermittent time settable
- Delayed wipe coupled with washer operation
- · 1 to 2 wipes immediately after turning on intermittent switch
- · Relay direct driving capability (500mA peak)
- · Wide operating voltage range: 8.0 to 16.0V

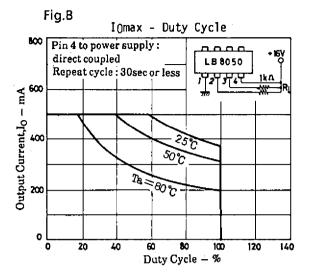
Absolute Maximun			unit				
Maximum Supply	Voltage	V_{CC} max			16	V	
Maximum Output	Voltage	V_{OUT} max			18	V	
Maximum Output	Current	I _O max1	Output: Darlington connection		See F	ig.A.	
		I _O max2	Output: Not Darlington	connection	See F	ig.B.	
Output Surge Cur	rent	IO surge	Pulse width: 5msec. or l		1000	mA	
-			repeat cycle: 1sec. or mo	re,			
			$V_{CC} = 8 \text{ to } 16V, Ta = -30$	to +80°C			
Allowable Power Dissipation		n Pd max	See Fig.C.		690	mW	
Storage Temperature		Topr	-	- 50 to -	+125	$^{\circ}\mathrm{C}$	
Operating Temperature		Topg		-30 to	+80	°C	
Allowable Oneveti	na Bona	o o t TTo — 95°€				unit	
Allowable Operation	-			1	12±4	V	
Operating Voltage	e Kange	v_{cc}		4	.2 <u>1</u> 4	V	
Electrical Charact	eristics a	t Ta = 25°C.Vcc=	=16V	Test			
		unless otherwis		Circuit min	typ	max	unit
Output Current	I_{OH1}		$= 2V, V_{WI} = 0V, V_{OH} = 16V$	1	• •	100	μA
•	I_{OH2}		$= 2V_1V_{WI} = 0V_1V_{OH} = 16V_1$	1		100	μA
Output 'L'-Level	V _{OL1}		$=0.3A, I_{O2} = 4mA,$	2		2.1	·v
•	ODI	$V_{WA} = 0V, V_{WI} =$					
	V_{OL2}		$=0.3A,I_{O2}=4mA,$	2		1.6	V
	0.55	$V_{WA} = 0V, V_{WI} =$					
				Con	tinued	on next	page.
		_	Dimensions 3001B-D8I(, 4 4 6 6 6 -			
		(unit: mm	,		II I]	
					9 -	0.2	
						-	
	•			9.4		•	÷
				ninte es	ကုန်		
				<u>ℷℴℋ</u> ϒᄉ℧ℰ	4		
				<u>1.4 </u>	L ^m SAI	NYO: DI	28
				2.54			

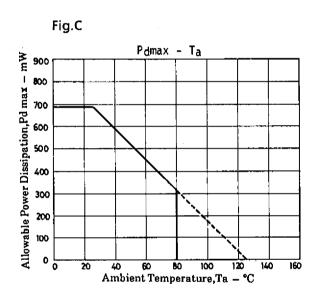
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			Test	min	typ	max	unit
			Circuit		,		
Input 'H'-Level	V_{1H1}	$I_{WA} = 50 \mu A, V_{WI} = 0 V$	3	4.7		6.8	V
	V_{1H2}	$I_{IN} = -1 \text{mA}, V_{WA} = V_{WI} = 0 \text{V}$	4	13.2		15.4	V.
	V_{IH3}	$I_{IN} = -1 \text{mA}, V_{WI} = 2 \text{V}, V_{WA} = 0 \text{V}$	5	13.2		15.4	V
	V_{IH4}	$I_{IN} = -1 \text{mA}, V_{WA} = V_{WI} = 2V$	6	5.6		8.6	V
Input Current	I_{IH1}	$V_{IN} = 7V, V_{WA} = 2V, V_{WI} = 0V$	7			20	μΑ
	I_{IH2}	$V_{CC} = 6.4 \text{V}, V_{IN} = 2.2 \text{V}, V_{WI} = 0 \text{V}$	8			2	μA
	I_{WA}	$V_{WA} = 10V$	9	5		10	mΑ
	I_{WI}	$V_{WI} = 10V$	10	5		10	mΑ
Supply Current	I _{CC1} ON	$V_{WA} = V_{WI} = 0V$	11	5		13	mΑ
	I _{CC2} OF	$V_{WA} = V_{WI} = 2V$	12	4		9	mA
	I _{CC3} OF	$V_{WA} = 2V, V_{WI} = 0V$	13	4		8.5	mA

Test Circuits

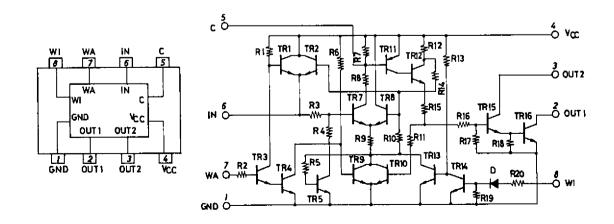


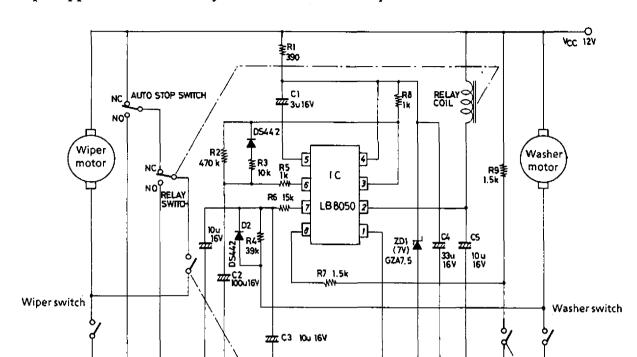






Equivalent Circuit and Block Diagram





GND

Intermittent operation switch

Sample Application Circuit: Asynchronous intermittent wiper control

Unit (resistance: Ω , capacitance: F)

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