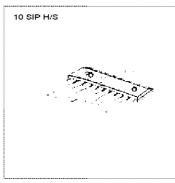


DUAL BRIDGE DRIVER

KA8306 is dual bridge driver designed for the cassette and tape loading motor drives in a VCR system.

FEATURES

- 4 modes available (CW/CCW/STOP/BRAKE)
 Output current up to 1.0A (AVE) and 1.5A (PEAK)
 Wide range of operating voltage V_{cc} opr = 4.5 ~ 18V V₅ opr = 0 ~ 18V
 V_{cc} opr = -0 ~ 18V
- V_{REF} opr = 0 ~ 18V
- · Build in thermal shutdown, over current protector and punch through current restriction circuit.
- Hysteresis for all inputs.



ORDERING INFORMATION

Device	Package	Operating Temperature
KA8306	10 SIP H/S	-30 ~ +75 ℃

. Q...

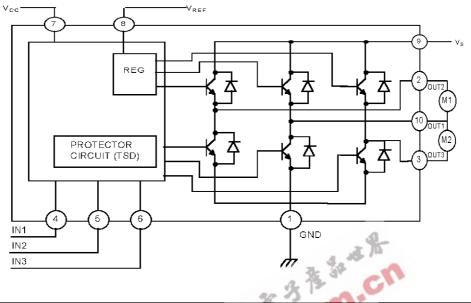
ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

					
Characteristic	Symbol	Value	Unit V V A A W C C		
Supply Voltage	Vcc	A 1 25	۷		
Motor Drive Voltage	Vs 🔧	25	٧		
Reference Voltage	VREF	25	V		
Output Current	l _o (peak)	1.5	А		
	I _o (AVE)	1.0	А		
Power Dissipation	Po	7.0	W		
Operating Temperature	TOPR	-30 ~ +75	ïC		
Storage Temperature	TSTG	-55 ~ +150	Ċ		

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BLOCK DIAGRAM



			-				
INPUT*		OUTPUT		MODE			
IN1	IN2	IN3	OUT1	OUT2	ОЛТЗ	M1	M2
0	0	1/0	L. L.	4	L	BRAKE	BRAKE
1	0	0	Н	L	**	CW/CCW	STOP
1	0	1	X L Y	Н	**	CCW/CW	STOP
0	1	0	Н	**	L	STOP	CW/CCW
0	1	1	I	**	н	STOP	CCW/CW
1	1	1/0	L	L	L	BRAKE	BRAKE

*: Inputs are all high active type

**[:]High impedance

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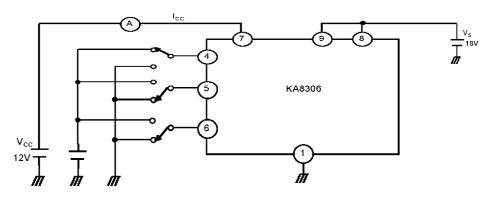
Characteristic		Symbol	Test Circuit	Test Conditions	Min	Тур	Max	Unit
Supply Current		I _{CC} 1	1	Output Off CW/CCW Mode	_	17	30	mA
		I _{CC} 2	1	Output Off, Stop Mode	_	13	25	mA
Input Operating H		V _{IN} -H	2	TJ=25℃	3.5		5.5	v
Voltage	L	V _{IN} -L	2	⊤_1=25℃	0	-	0.8	v
Input Current		lin	2	V _{IN} =3.5V, Sink Mode	_	5	20	μΛ
Input Hysteresis Voll	age	V _{HYS}	2		—	0.7	-	۷
	Upper	V _{SAT} -1U	3	V _{REF} =V _S , I _O =0.2A	—	1.2	1.5	۷
Saturation Voltage	Lower	V _{SAT} -1L	3	V _{REF} =V _S , I _O =0.2A		1.1	1.4	۷
	Upper	V _{SAT} -2U	3	V _{REF} =V _S , I _O =1.0A	—	2.7	3.1	٧
	Lower	V _{SAT} -2L	3	V _{REF} =V _S , I _O =1.0A	_	2.5	3.0	۷
Output Voltage		V _o -1	3	V _{REF} =10V, I ₀ =0.5A Output Measure	10.3	10.7	11.5	۷
		V ₀ -2	3	V _{REF} =10V, I ₀ =0.5A Output Measure	10.1	10.5	11.3	v
Leakage Current	Upper	IL-U		V ₅ =25V	—	0	50	μA
	Lower	IL-L		V _S =25V		0	50	μA
Diode Forward	Upper	VF-U	4	IF=1.0A	1.1.	2.2	-	٧
Voltage	Lower	VF-L	4	IF=1.0A		1.4	-	۷
Reference Current		IREF	2	V _{REF} =10V, Source Mode		20	30	μA
	1			COL				

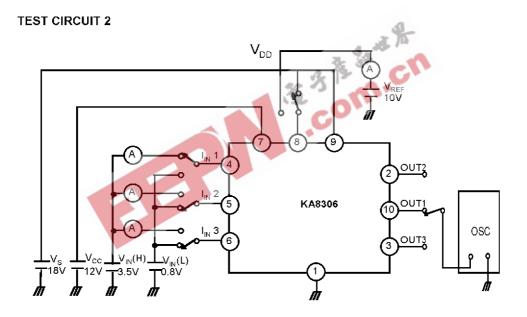
ELECTRICAL CHARACTERISTICS (TA=25°C, Voc=18V, Vs=18V)

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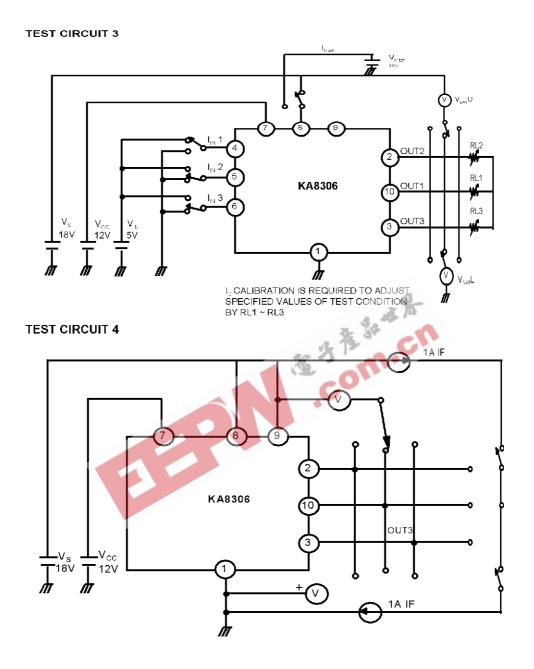


TEST CIRCUIT 1







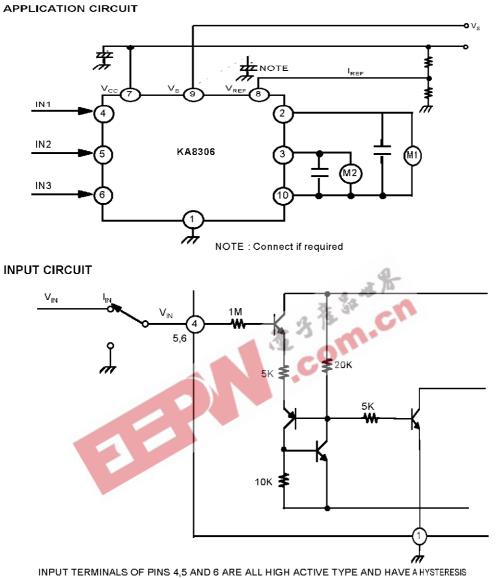


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OF 0.7V TYPE 5#A TYPE OF SOURCE MODE INPUT CURRENT IS REQUIRED.



OUTPUT CIRCUIT

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