

LINEAR MONOLITHIC INTEGRATED CIRCUITS

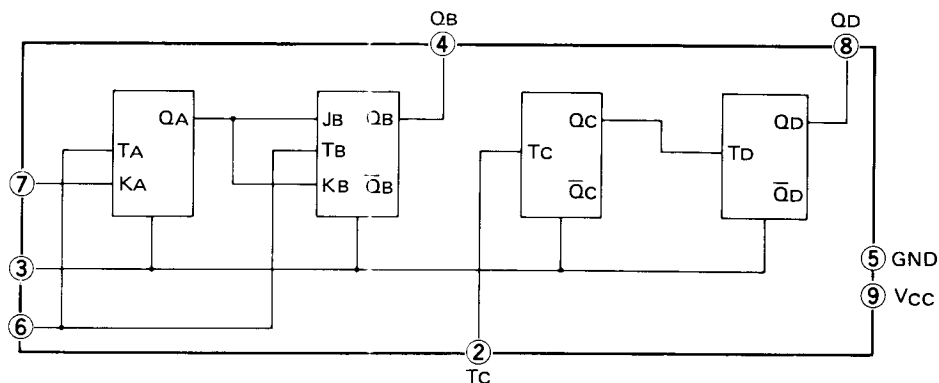
Miscellaneous Type

Type No.	Function	Maximum Ratings (Ta=25°C)	Electrical Characteristics (Ta=25°C)										
			Item	Symbol	Condition	min.	typ.	max.	Unit				
AN6811	3, 4, 8, 12, 16 Frequency Divider	VCC=15V ICC(I14)=30mA PD=350mW Topr=-20~+75°C Tstg=-65~+150°C	“L” Level Output Voltage	VOL	Vcc=15V, IOL=6mA VIT=0, VIS=15V			0.4	V				
					Vcc=9V, IOL=5mA VIT=0, VIS=9V			0.4	V				
			“H” Level Output Voltage	VOH	Vcc=15V, IOH=-1mA VIT=0, VIS=15V	13			V				
					Vcc=9V, IOH=-1mA VIT=0, VIS=9V	7			V				
			“L” Level Input Voltage (TKS)	VIL			0		0.5	V			
			“H” Level Input Voltage (TKS)	VIH	Vcc≥VIT, VIK, VIS	4		15	V				
			“L” Level Input Current	-IIL	Vcc=15V, VI=0			1.5	mA				
			“H” Level Input Current	IIH	Vcc=15V, VI=15V			100	μA				
			Total Circuit Current	Itot	Vcc=15V, VIT=0			30	mA				
AN6875 AN6876	5-Dot LED Driver Circuits	VCC=-0.5~18V ICC=18mA PD=550mW Topr=-20~+75°C Tstg=-55~+150°C	LED ON Input Voltage	LED1	VON1	Vcc=16V	AN6875			1.12	V		
				LED2	VON2					1.86	V		
				LED3	VON3					3.10	V		
				LED4	VON4					5.18	V		
				LED5	VON5					8.66	V		
			LED OFF Input Voltage	LED1	VOFF1			0.80			V		
				LED2	VOFF2			1.49			V		
				LED3	VOFF3			2.54			V		
				LED4	VOFF4			4.28			V		
				LED5	VOFF5			7.23			V		
			LED ON Input Voltage	LED1	VON1	Vcc=16V	AN6876		1.8	2.02	V		
				LED2	VON2				2.4	2.69	V		
				LED3	VON3				3	3.36	V		
				LED4	VON4				3.6	4.03	V		
				LED5	VON5				4.1	4.59	V		
			LED OFF Input Voltage	LED1	VOFF1			1.58	1.8		V		
				LED2	VOFF2			2.11	2.4		V		
				LED3	VOFF3			2.64	3		V		
				LED4	VOFF4			3.17	3.6		V		
				LED5	VOFF5			3.61	4.1		V		
			Load Current	(Pin 6)	I6	Vcc=16V I7=4.25mA	Vo=1.2V	13	16		mA		
				(Pin 1~4)	I1~I4		Vo=2.5V	13	16		mA		
				(Pin 1~4, 6)	I1~I4, I6		Vo=16V		16	19	mA		
			Input Current	I8	Vcc=16V	AN6875 V8-5=8.7V AN6876 V8-5=8.5V				50	μA		
						Vcc=16V, V8-5=16V				5	mA		
			Supply Current	I9	Vcc=16V, V8-5=16V					18	mA		
			Output Leak Current	I1~I4, I6	Vcc=16V, Vo=16V					15	μA		
			Operating Voltage Range	Vcc (opr)				12		16	V		
			AN6875 : Logarithmic Response										
			AN6876 : Linear Response										

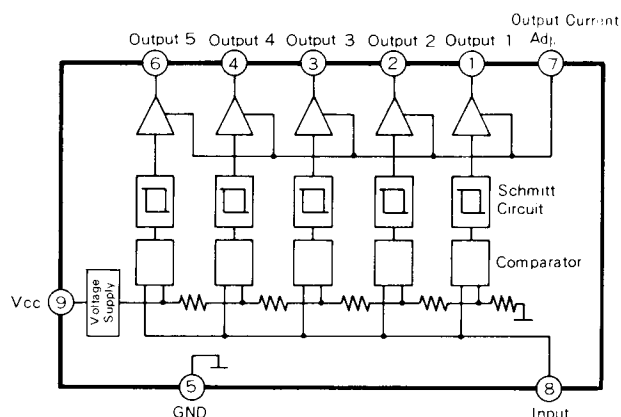
Block Diagram

Application Circuit

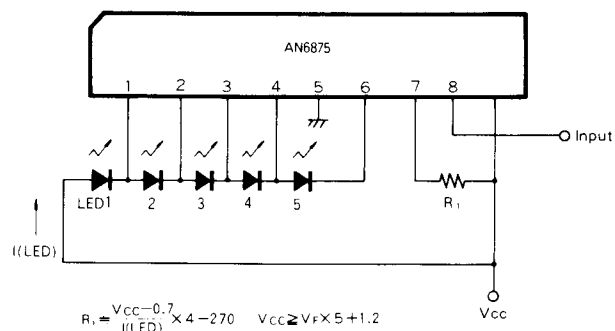
AN6811 (Package I—7, 9—Lead Plastic SIL)



AN6875 (Package I—7, 9—Lead Plastic SIL)

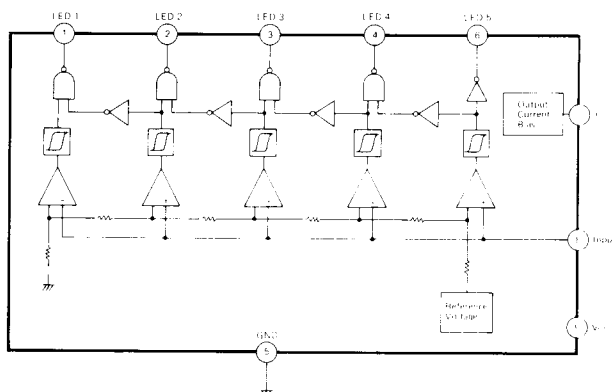


1. Bar Graph Display



Note: If voltage at pin ⑥ is high with 5 LEDs turning on, insert a resistor in the anode side of LED 1 for reducing the P.D.

AN6876 (Package I—7, 9—Lead Plastic SIL)



2. Dot Display

