

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	V _{CC} =15V I _{CC} (I ₁₄)=30mA P _D =350mW T _{opr} =-20~+75°C T _{stg} =-65~+150°C	"L" Level Output Voltage	V _{OL}	V _{CC} =15V, I _{OL} =6mA V _{IT} =0, V _{IS} =15V			0.4	V		
					V _{CC} =9V, I _{OL} =5mA V _{IT} =0, V _{IS} =9V			0.4	V		
			"H" Level Output Voltage	V _{OH}	V _{CC} =15V, I _{OH} =-1mA V _{IT} =0, V _{IS} =15V	13			V		
					V _{CC} =9V, I _{OH} =-1mA V _{IT} =0, V _{IS} =9V	7			V		
			"L" Level Input Voltage (TKS)	V _{IL}		0		0.5	V		
			"H" Level Input Voltage (TKS)	V _{IH}	V _{CC} ≥ V _{IT} , V _{IK} , V _{IS}	4		15	V		
			"L" Level Input Current	-I _{IL}	V _{CC} =15V, V _I =0			1.5	mA		
			"H" Level Input Current	I _{IH}	V _{CC} =15V, V _I =15V			100	μA		
Total Circuit Current	I _{tot}	V _{CC} =15V, V _{IT} =0			30	mA					
AN6875 AN6876	5-Dot LED Driver Circuits	V _{CC} =-0.5~18V I _{CC} =18mA P _D =550mW T _{opr} =-20~+75°C T _{stg} =-55~+150°C	LED ON Input Voltage	LED1	V _{ON1}	V _{CC} =16V	AN6875			1.12	V
				LED2	V _{ON2}					1.86	V
				LED3	V _{ON3}					3.10	V
				LED4	V _{ON4}					5.18	V
				LED5	V _{ON5}					8.66	V
			LED OFF Input Voltage	LED1	V _{OFF1}			0.80	V		
				LED2	V _{OFF2}			1.49	V		
				LED3	V _{OFF3}			2.54	V		
				LED4	V _{OFF4}			4.28	V		
				LED5	V _{OFF5}			7.23	V		
			LED ON Input Voltage	LED1	V _{ON1}	V _{CC} =16V	AN6876		1.8	2.02	V
				LED2	V _{ON2}				2.4	2.69	V
				LED3	V _{ON3}				3	3.36	V
				LED4	V _{ON4}				3.6	4.03	V
				LED5	V _{ON5}				4.1	4.59	V
			LED OFF Input Voltage	LED1	V _{OFF1}			1.58	1.8	V	
				LED2	V _{OFF2}			2.11	2.4	V	
				LED3	V _{OFF3}			2.64	3	V	
				LED4	V _{OFF4}			3.17	3.6	V	
				LED5	V _{OFF5}			3.61	4.1	V	
Load Current	(Pin 6)	I ₆	V _{CC} =16V I ₇ =4.25mA	V _O =1.2V	13	16		mA			
	(Pin 1-4)	I ₁₋₄		V _O =2.5V	13	16		mA			
	(Pin 1-4,6)	I _{1-4, 6}		V _O =16V		16	19	mA			
Input Current		I ₈	V _{CC} =16V	AN6875 V ₈₋₅ =8.7V			50	μA			
				AN6876 V ₈₋₅ =8.5V							
Supply Current		I ₉	V _{CC} =16V, V ₈₋₅ =16V				5	mA			
Output Leak Current		I _{1-4, 6}	V _{CC} =16V, V _O =16V				18	mA			
Operating Voltage Range		V _{CC} (opr)			12		16	V			
AN6875 : Logarithmic Response AN6876 : Linear Response											

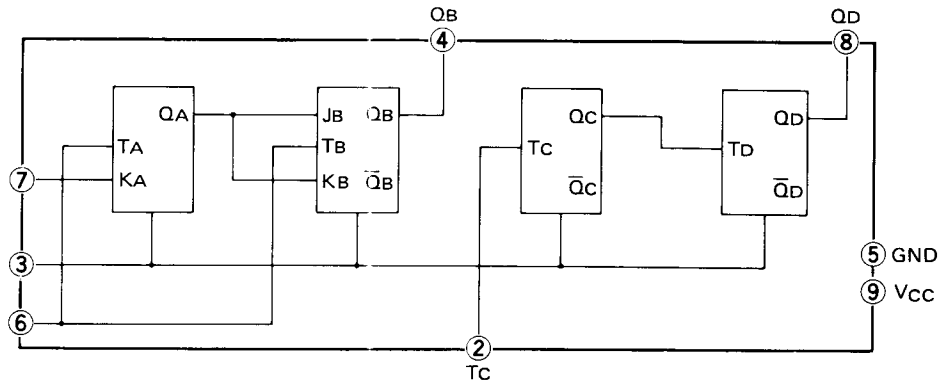
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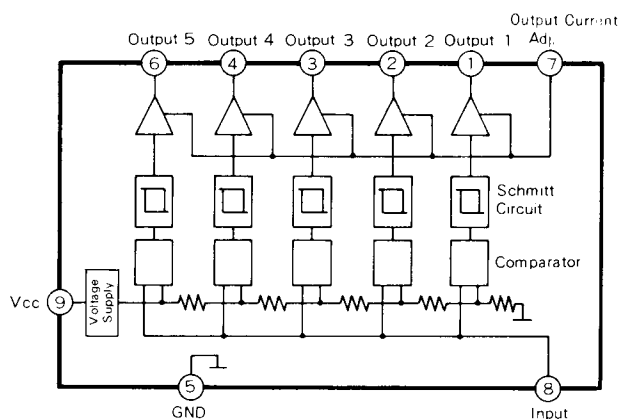
Block Diagram

Application Circuit

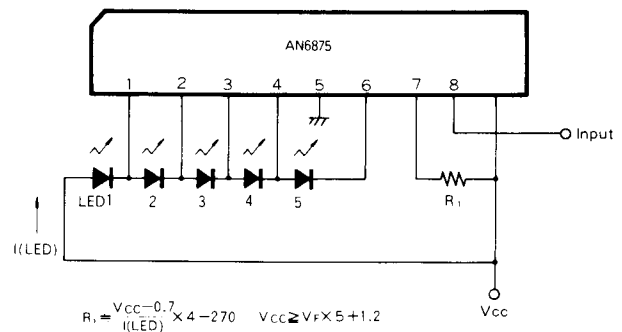
AN6811 (Package I-7,9-Lead Plastic SIL)



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

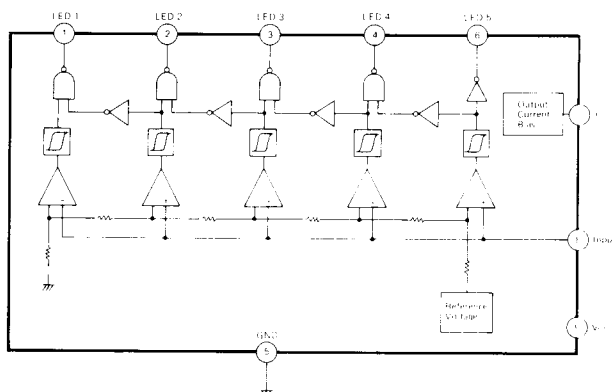


1. Bar Graph Display



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

