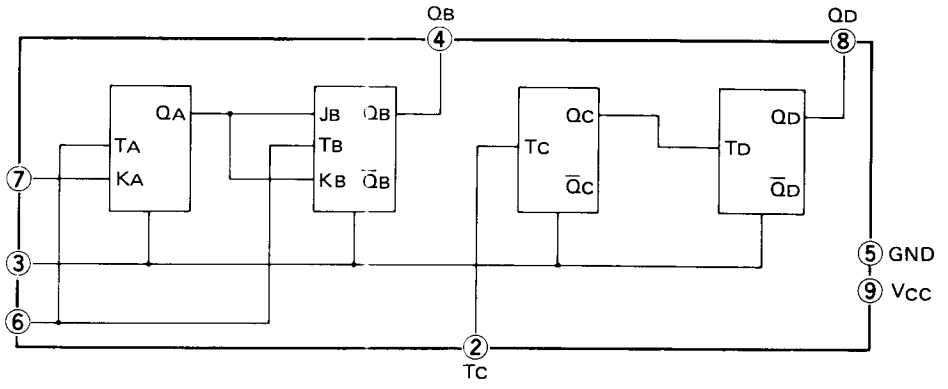
Miscellaneous Type

Type No.	Function	Maximum Ratings (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 Topr=−20~+75℃ Tstg=−65~+150℃	"L" Level Output Voltage		V_{OL}	Vcc=15V, I_{OL}=6mA V_{IT}=0, V_{IS}=15V				0.4	V
						Vcc=9V, I_{OL}=5mA V_{IT}=0, V_{IS}=9V				0.4	V
			"H" Level Output Voltage		V_{OH}	Vcc=15V, I_{OH}=−1mA V_{IT}=0, V_{IS}=15V		13			V
						Vcc=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}	Vcc≧V_{IT}, V_{IK}, V_{IS}		4		15	V
			"L" Level Input Current		$-I_{IL}$	Vcc=15V, V_I=0				1.5	mA
			"H" Level Input Current		I_{IH}	Vcc=15V, V_I=15V				100	μA
			Total Circuit Current		Itot	Vcc=15V, V_{IT}=0				30	mA
AN6875 AN6876	5-Dot LED Driver Circuits	V_{CC}=−0.5~18V I_{CC}=18mA P_D=550mW Topr=−20~+75℃ Tstg=−55~+150℃	LED ON Input Voltage	LED1	V_{ON1}	Vcc=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}	Vcc=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 Curren	(Pin 6)	I_6	Vcc=16V I_7=4.25mA	Vo=1.2V	13	16		mA
				(Pin 1~4)	I_1~I_4		Vo=2.5V	13	16		mA
				(Pin 1~4,6)	I_1~I_4, I_6		Vo=16V		16	19	mA
			Input Current		I_8	Vcc=16V	AN6875 V_{8-5}=8.7V			50	μA
							AN6876 V_{8-5}=8.5V				
						Vcc=16V, V_{8-5}=16V				5	mA
			Supply Current		I_9	Vcc=16V, V_{8-5}=16V				18	mA
			Output Leak Current		I_1~I_4, I_6	Vcc=16V, Vo=16V				15	μA
			Operating Voltage Range		Vcc(opr)			12		16	V

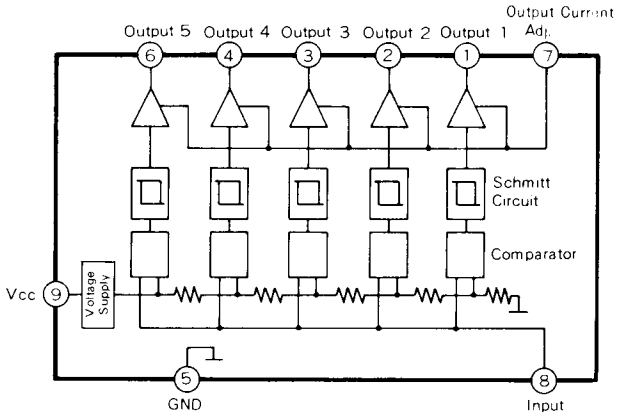
AN6875 : Logarithmic Response
AN6876 : Linear Response

Block Diagram	Application Circuit

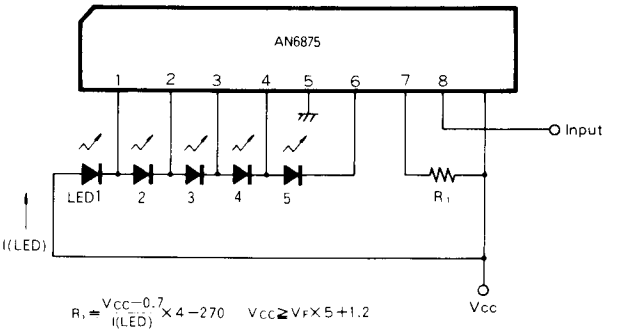
AN6811 (Package I—7, 9—Lead Plastic SIL)



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



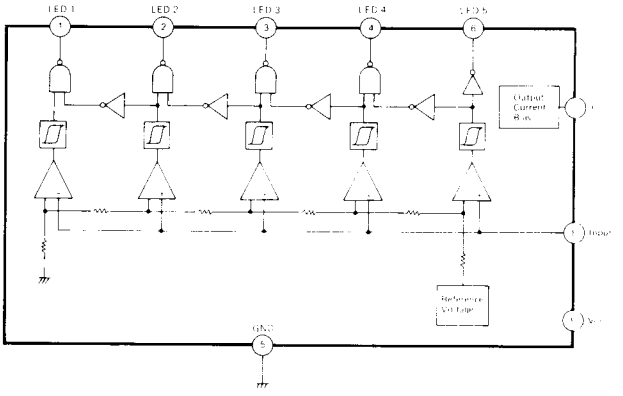
1. Bar Graph Display



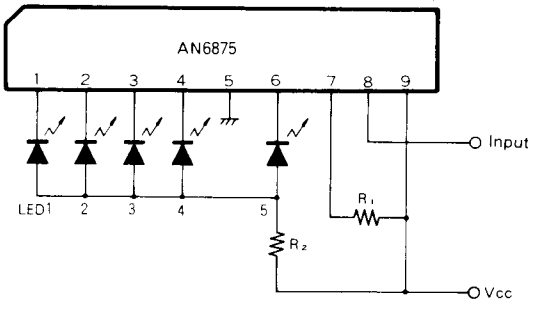
$$R_1 = \frac{V_{CC}-0.7}{I_{(LED)}} \times 4 - 270 \qquad V_{CC} \geq V_F \times 5 + 1.2$$

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

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



2. Dot Display



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