

DIGITAL MONOLITHIC INTEGRATED CIRCUITS

Bipolar IC's

Type No.	Function	Maximum Ratings (Ta=25°C)	Electrical Characteristics (Ta=25°C)								
			Item	Symbol	Condition	min.	typ.	max.	Unit		
DN6838	Switch Type Hall IC	V _{CC} =18V I _{CC} =8mA I _O =20mA P _D =100mA T _{opr} =-40~+100°C T _{stg} =-55~+125°C	Magnetic Flux Density Output L → H	B(L→H)	V _{CC} =12V	-300			Gauss		
			Magnetic Flux Density Output H → L	B(H→L)	V _{CC} =12V			300	Gauss		
			"L" Level Output Voltage	V _{OL}	I _O =12mA B=300Gauss	V _{CC} =16V V _{CC} =8V			0.4	V	
			"H" Level Output Voltage	V _{OH}	I _O =-30μA B=-300Gauss	V _{CC} =16V V _{CC} =8V	12			V	
			Output Short-Circuited Current	-I _{OS}	V _{CC} =16V, V _O =0 B=-300Gauss			0.32		0.68	mA
			Supply Current	I _{CC}	V _{CC} =16V					6	mA
					V _{CC} =8V					5.5	mA
			DN6839	Switch Type Hall IC	V _{CC} =18V I _{CC} =8mA I _O =20mA P _D =120mA T _{opr} =-20~+75°C T _{stg} =-55~+125°C	Magnetic Flux Density Output H → L	B(H→L)	V _{CC} =4.5~16V			750
Magnetic Flux Density Output L → H	B(L→H)	V _{CC} =4.5~16V, B=750Gauss I _O =12mA				100				Gauss	
"L" Level Output Voltage	V _{OL}	V _{CC} =4.5~16V, B=750Gauss I _O =12mA							0.4	V	
"H" Level Output Voltage	I _{OH}	V _{CC} =4.5~16V, B=100Gauss V _O =30V							10	μA	
Supply Current	Output "H"	I _{CH}				V _{CC} =16V				7	mA
	Output "L"	I _{CL}				V _{CC} =16V, B=750Gauss				7	mA

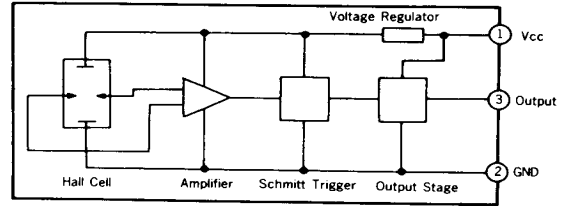
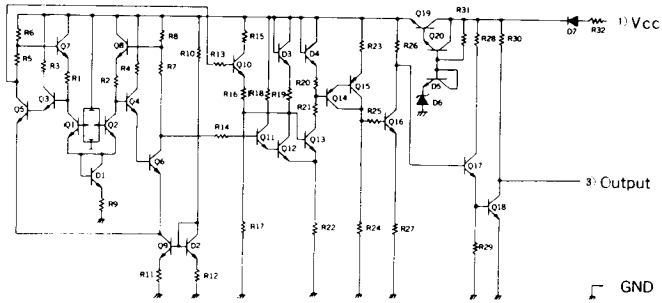
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Circuit Diagram

Block Diagram

DN6838 (Package I-2, 3-Lead Plastic DIL)



DN6839 (Package I-2, 3-Lead Plastic DIL)

