

HYBRID MICROCIRCUITS

PIN DIODE RF SWITCH DRIVERS

MAIN FEATURES

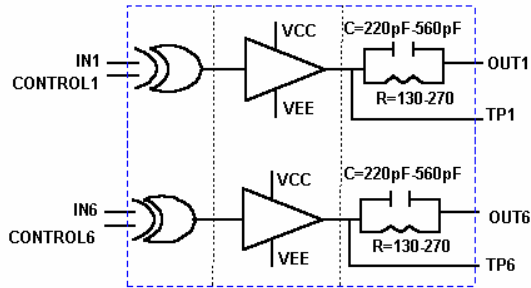
- True TTL inputs.
- Inverting / non-inverting inputs.
- Reverse-voltage protected.
- Packaged in hermetically sealed flat pack.
- Switching speed from 6 ns to 35n (over temp).
- Operating temperature encompasses full military range (-55°c to +125°c).
- Positive supply voltage (VCC) +5V ±0.5V.
- Negative supply voltage (VEE) from -5V to -15V.
- Contain internal spiking capacitors.
- Include external test points to enable modification of output currents (Available only @ VHSD family).

AVAILABLE PRODUCTS

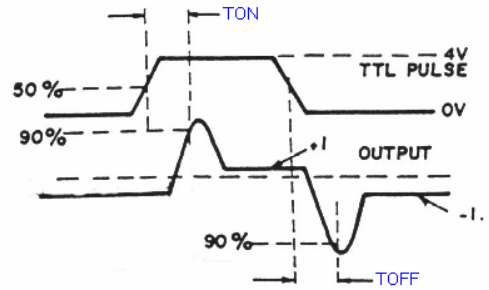
Model	No. of Channels	Package size	Supply Voltage (V)		Quiescent Current (mA)		Switching Speed (ns)				Output Current (mA)	
			VCC	VEE	VCC	VEE	Ton		Toff		Sink	Source
HIGH SPEED DRIVERS:												
HSD1	1	A	5	-5	5	-5	25	35	25	35	30	9
HSD2	2	A	5	-5	5	-5	25	35	25	35	30	9
HSD4	4	A	5	-5	5	-5	25	35	25	35	30	9
VERY HIGH SPEED DRIVERS:												
VHSD1	1	A	5	-5 ÷ -15	25	10	6	12	8	12	30	9
VHSD2	2	B	5	-5 ÷ -15	25	10	6	12	8	12	30	9
VHSD4	4	C	5	-5 ÷ -15	25	10	6	12	8	12	30	9
VHSD6	6	D	5	-5 ÷ -15	25	10	6	12	8	12	30	9
VERY HIGH SPEED TINY DRIVERS:												
VHSTD1	1	A	5	-5	10	-10	6	12	8	12	30	9
VHSTD2	2	A	5	-5	10	-10	6	12	8	12	30	9
VHSDT4	4	C	5	-5	10	-10	6	12	8	12	30	9
VHSDT6	6	C	5	-5	10	-10	6	12	8	12	30	9

ALL DRIVERS ARE AVAILABLE IN OPEN CARRIER FORM.

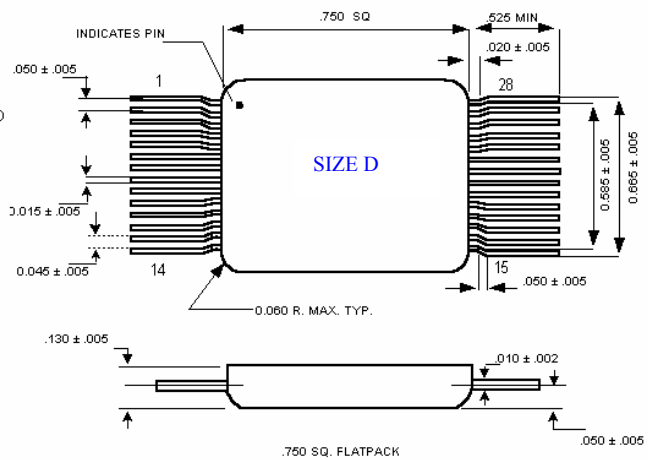
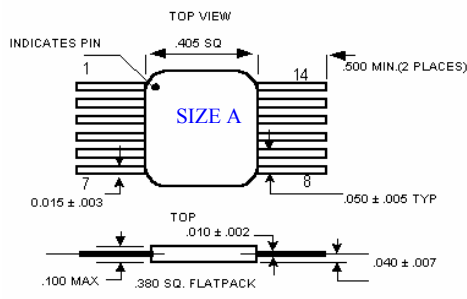
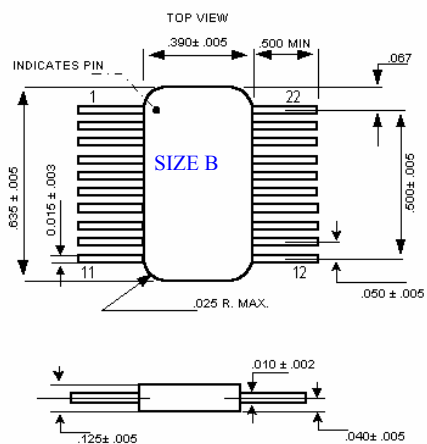
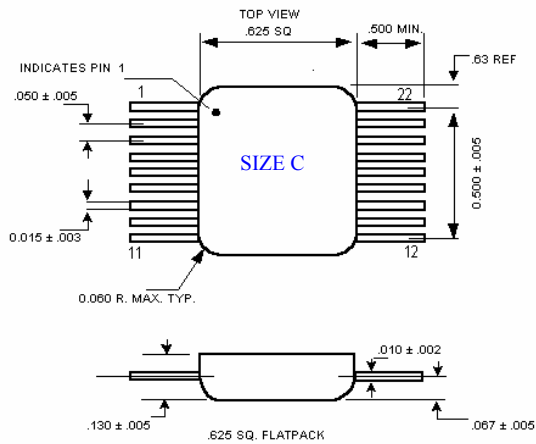
BLOCK DIAGRAM



WAVEFORM



OUTLINE DRAWINGS



All dimensions are in inches

PIN CONFIGURATION

SIZE A			
PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	VEE	8	N.C.
2	OUT	9	N.C.
3	GND	10	N.C.
4	N.C.	11	TP
5	IN	12	N.C.
6	M.C	13	N.C.
7	VCC	14	N.C.

SIZE B			
PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	TP1	12	VCC
2	OUT1	13	N.C.
3	N.C.	14	N.C.
4	IN 1	15	N.C.
5	GND	16	N.C.
6	M.C 1	17	N.C.
7	M.C 2	18	N.C.
8	IN 2	19	N.C.
9	N.C.	20	N.C.
10	OUT2	21	N.C.
11	TP2	22	VEE

SIZE C			
PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	GND	12	VEE
2	IN 1	13	N.C.
3	M.C 1	14	OUT4
4	IN 2	15	TP4
5	M.C 2	16	OUT3
6	IN 3	17	TP3
7	M.C 3	18	N.C.
8	IN 4	19	OUT2
9	M.C 4	20	TP2
10	VCC	21	OUT1
11	GND	22	TP1

SIZE D			
PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	GND	15	VEE
2	IN 1	16	OUT6
3	M.C 1	17	TP6
4	IN 2	18	TP5
5	M.C 2	19	OUT5
6	IN 3	20	OUT4
7	M.C 3	21	TP4
8	IN 4	22	VCC
9	M.C 4	23	TP3
10	IN 5	24	OUT3
11	M.C 5	25	OUT2
12	IN 6	26	TP2
13	M.C 6	27	TP1
14	GND	28	OUT1