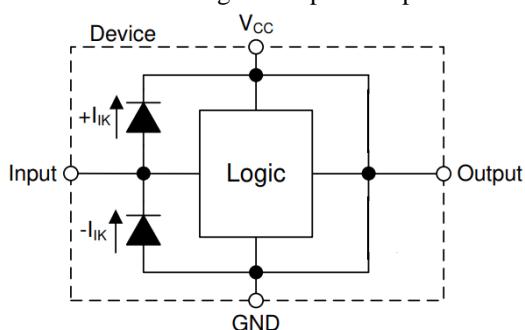


FEATURES

- Operating Voltage Range: 1.65V to 5.5V
- Low Power Consumption: 10 μ A (Max)
- Operating Temperature Range: -40°C to +125°C
- Inputs Accept Voltage to 5.5V
- High Output Drive: ± 24 mA at V_{CC}=3.0V
- Micro Size Packages: SOT23-5, SC70-5
- Positive-negative input clamp diode



APPLICATIONS

- Active Noise Elimination
- Bar Code Scanner
- Blood Pressure Monitor
- CPAP Machine
- Fingerprint identification
- Network attached storage (NAS)

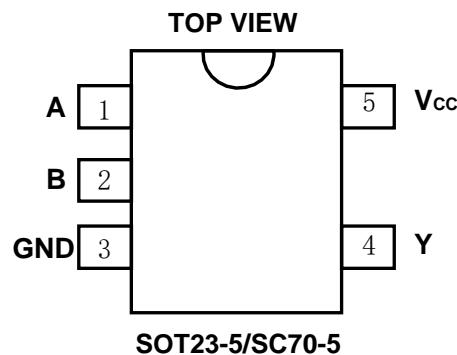
LOGIC SYMBOL



PACKAGE/ORDERING INFORMATION

PRODUCT	ORDER NUMBER	PACKAGE DESCRIPTION	PACKAGE OPTION	MARKING INFORMATION
GS1G08	GS1G08-TR	SOT23-5	Tape and Reel,3000	1G08
	GS1G08-CR	SC70-5	Tape and Reel,3000	1G08

PIN CONFIGURATIONS



PIN DESCRIPTION

PIN	NAME	I/O TYPE	FUNCTION
SOT23-5/SC70-5			
1	A	I	Input
2	B	I	Input
3	GND	P	Ground
4	Y	O	Output
5	V _{CC}	P	Power pin

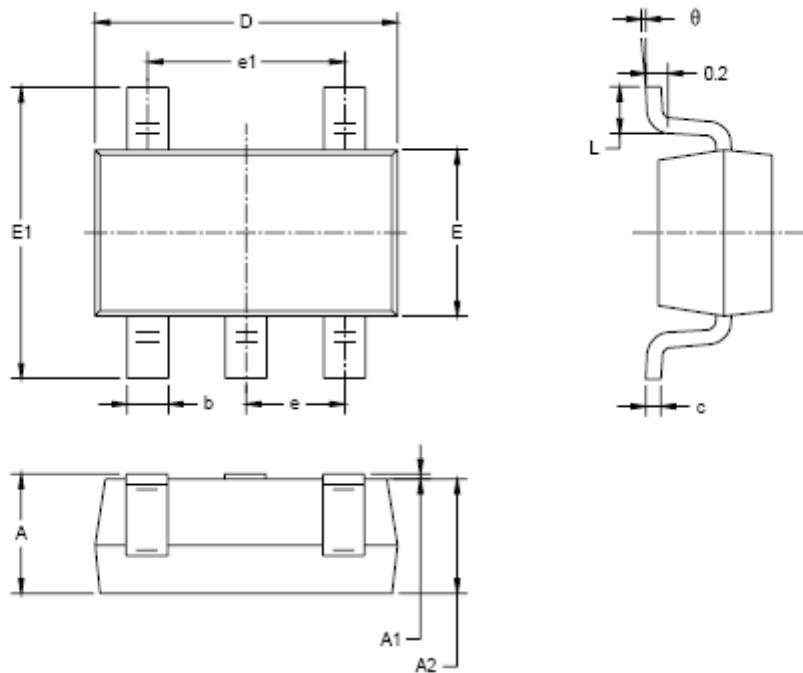
AC Characteristics

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNITS
Propagation Delay	t_{pd}	V _{CC} =1.8V±0.15V	$C_L=30\text{pF}, R_L=1\text{k}\Omega$		8.8		ns
		V _{CC} =2.5V±0.2V	$C_L=30\text{pF}, R_L=500\Omega$		5		
		V _{CC} =3.3V±0.3V	$C_L=50\text{pF}, R_L=500\Omega$		3.8		
		V _{CC} =5V±0.5 V	$C_L=50\text{pF}, R_L=500\Omega$		3.5		
Input Capacitance	C_i	V _{CC} =0V			4		pF
Power dissipation capacitance	C_{pd}	V _{CC} =3.3V	$f=10\text{MHz}$		26		pF
		V _{CC} =5V			31		

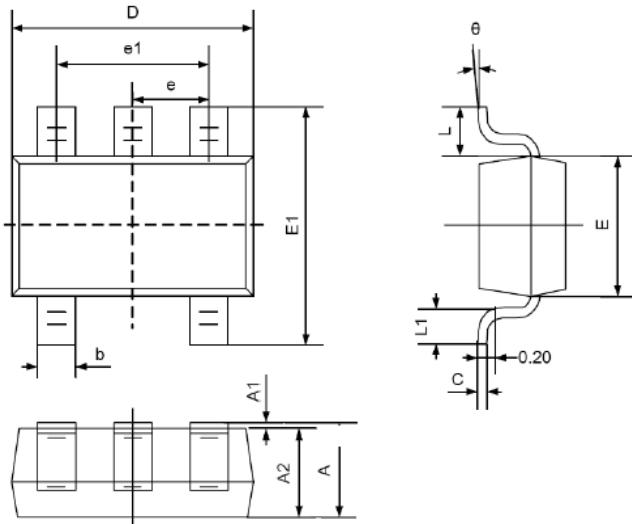
- (1) All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation.

PACKAGE OUTLINE DIMENSIONS

SOT23-5



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	MIN	MAX	MIN	MAX
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.950 BSC		0.037 BSC	
e1	1.900 BSC		0.075 BSC	
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°

SC70-5


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
C	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650TYP		0.026TYP	
e1	1.200	1.400	0.047	0.055
L	0.525REF		0.021REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°