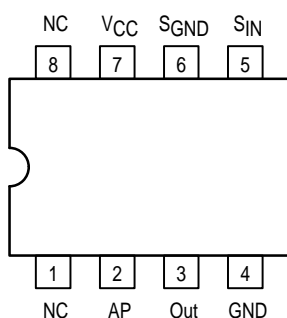


225MHz Prescaler

The MC12023 is a prescaler which will divide by 64. This device may be operated over a supply voltage range of 3.2 to 5.5V.

- 225MHz Toggle Frequency
- Low-Power 4.8mA Maximum at 5.5V
- Operating Supply Voltage of 3.2 to 5.5V
- Connecting Pins 2 and 3 Allows Driving One TTL Load

Pinout: 8-Lead Plastic (Top View)



MAXIMUM RATINGS

Symbol	Characteristic	Range	Unit
V_{CC}	Power Supply Voltage	0 to +8.0	Vdc
T_A	Operating Temperature Range	0 to +70	°C
T_{stg}	Storage Temperature Range	-65 to +175	°C

ELECTRICAL CHARACTERISTICS ($V_{CC} = 3.2$ to $5.5V$; $T_A = 0$ to $+70^\circ C$)

Symbol	Characteristic	Min	Typ	Max	Unit
f_{max} f_{min}	Toggle Frequency (Sine Wave Input)	225		35	MHz
I_{CC}	Supply Current at 5.5V		3.5 ³	4.8	mA
V_{OH}	Output Voltage HIGH ¹ ($V_{CC} = 3.2V$) ²	1.2	1.4		V
V_{OH}	Output Voltage HIGH ¹ ($V_{CC} = 5.0V$) ²	2.5			V
V_{OL}	Output Voltage LOW ¹ ($I_{sink} = 2.0mA$)			0.5	V
V_{in}	Input Voltage Sensitivity 35MHz 50-225MHz	400 200		800 800	mV _{pp}

1. Pin 2 connected to Pin 3

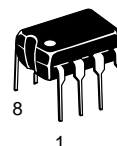
2. $I_{source} = 50\mu A$

3. $V_{CC} = 4.5V$

MC12023

MECL PLL COMPONENTS

**÷64
PRESCALER**

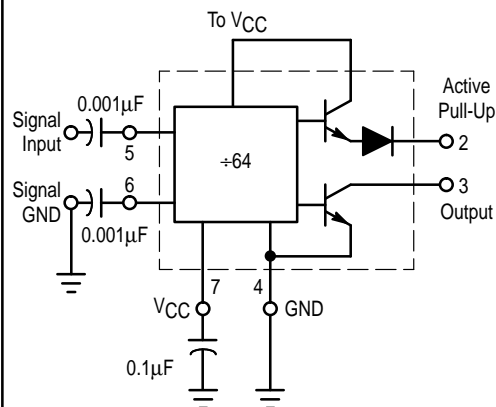


P SUFFIX
PLASTIC PACKAGE
CASE 626-05

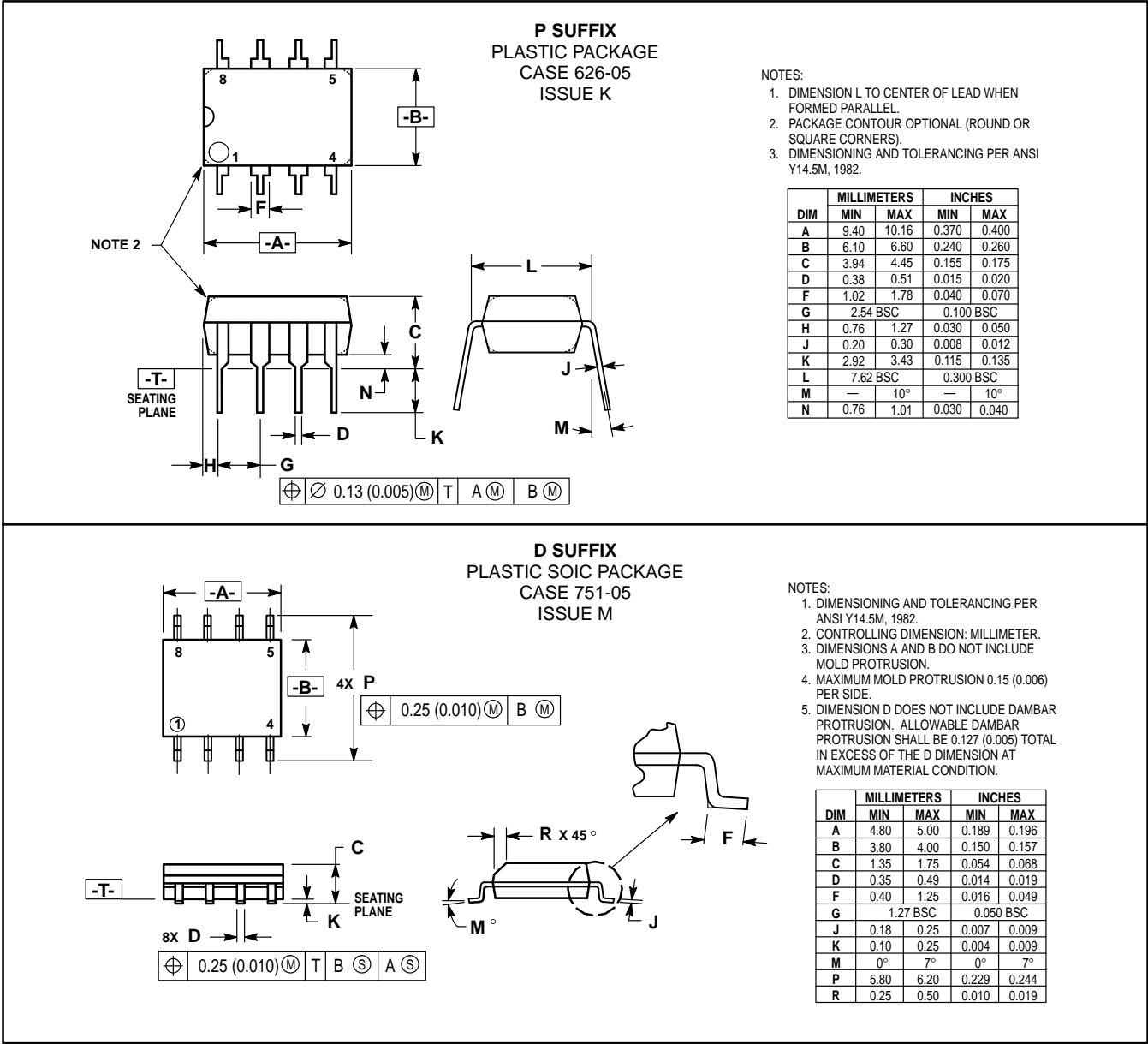
D SUFFIX
PLASTIC SOIC PACKAGE
CASE 751-05



PRESCALER BLOCK DIAGRAM



OUTLINE DIMENSIONS



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