



## LINEAR BUILDING BLOCK – DUAL LOW-POWER COMPARATOR

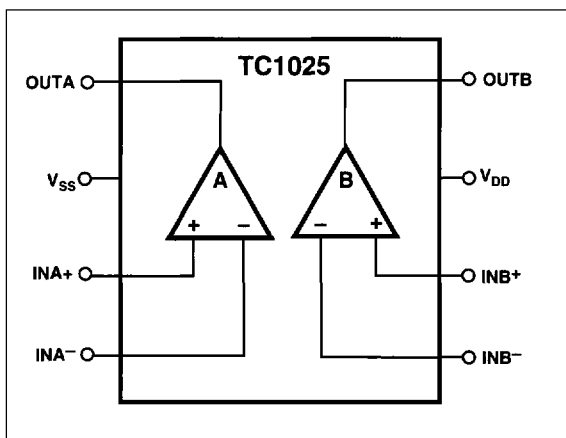
### FEATURES

- Rail-to-Rail Inputs and Outputs
- Optimized for Single-Supply Operation
- Small Package .....  
8-Pin MSOP (Consumes Only Half the Space of an 8-Pin SOIC), 8-Pin SOIC, 8-Pin DIP
- Ultra Low Input Bias Current ..... Less than 100 pA
- Low Quiescent Current ..... 8  $\mu$ A, Max
- Operates Down to  $V_{DD} = 1.8V$ , Min

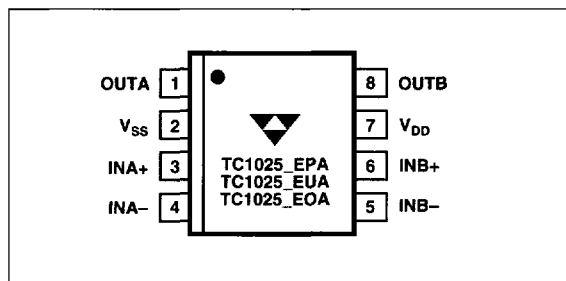
### APPLICATIONS

- Power Management Circuits
- Battery Operated Equipment
- Consumer Products

### FUNCTIONAL BLOCK DIAGRAM



### PIN CONFIGURATIONS (MSOP, DIP, and SOIC)



### GENERAL DESCRIPTION

The TC1025 is a dual low-power comparator available with either complementary or open drain outputs.

The TC1025 is designed for operation from a single supply, however, operation from dual supplies also is possible, and the power supply current drain is independent of the magnitude of the power supply voltage. Maximum supply current is 8  $\mu$ A, and operation is guaranteed to  $V_{DD} = 1.8V$ . Input and output signal swing is rail-to-rail.

Available in a space-saving 8-pin MSOP package, the TC1025 consumes half the board area required by a standard 8-pin SOIC package. It also is available in 8-pin SOIC and DIP packages. It is ideal for applications requiring high integration, small size, and low power.

### ORDERING INFORMATION

Part No.	Package	Comparator Output	Temp. Range
TC1025NEPA	8-Pin DIP	Open Drain	-40°C to +85°C
TC1025NEUA	8-Pin MSOP	Open Drain	-40°C to +85°C
TC1025NEOA	8-Pin SOIC	Open Drain	-40°C to +85°C
TC1025CEPA	8-Pin DIP	Complementary	-40°C to +85°C
TC1025CEUA	8-Pin MSOP	Complementary	-40°C to +85°C
TC1025CEOA	8-Pin SOIC	Complementary	-40°C to +85°C

*TC1043EV Evaluation Kit for Linear Building Block Family*

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