

|            | TYPE No.  | Original   | Temperature Range | Input Voltage (V) |      | Output Voltage (V) |        | Load Regulation |                | Line Regulation MAX. | Input Output Differential (V) |      | Package Outline  |
|------------|-----------|------------|-------------------|-------------------|------|--------------------|--------|-----------------|----------------|----------------------|-------------------------------|------|------------------|
|            |           |            |                   | MIN.              | MAX. | MIN.               | MAX.   | MAX.            | I <sub>L</sub> |                      |                               |      |                  |
| REGULATORS | μPC141A/C | 305        | Industrial        | 8.0               | 40   | 4.5                | 30     | 0.05%           | 12mA           | 0.06%/V              | 3.0                           | 30   | TO-99/8-LEAD DIP |
|            | μPC305C   | 305        | Commercial        | 8.0               | 40   | 4.5                | 30     | 0.05%           | 12mA           | 0.06%/V              | 3.0                           | 30   | 8-LEAD DIP       |
|            | μPC142A   | 304        | Industrial        | -40               | -8   | -30                | -0.035 | 5mV             | 20mA           | 0.1%                 | 2.0                           | 40   | TO-100           |
|            | μPC7805H  | 7805       | Industrial        | 7                 | 35   | 4.8                | 5.2    | 100mV           | 1.5A           | 100mV                | 2.0 (TYP.)                    |      | TO-220           |
|            | μPC7808H  | 7808       | Industrial        | 10                | 35   | 7.7                | 8.3    | 160mV           | 1.5A           | 160mV                | 2.0 (TYP.)                    |      | TO-220           |
|            | μPC7812H  | 7812       | Industrial        | 15                | 35   | 11.5               | 12.5   | 240mV           | 1.5A           | 240mV                | 2.0 (TYP.)                    |      | TO-220           |
|            | μPC7815H  | 7815       | Industrial        | 18                | 35   | 14.4               | 15.6   | 300mV           | 1.5A           | 300mV                | 2.0 (TYP.)                    |      | TO-220           |
|            | μPC78L05  | 78L05      | Commercial        | 7                 | 30   | 4.6                | 5.4    | 60mV            | 100mA          | 200mV                | 2.0 (TYP.)                    |      | SP-8             |
|            | μPC78L08  | 78L08      | Commercial        | 10.5              | 30   | 7.36               | 8.64   | 80mV            | 100mA          | 200mV                | 2.0 (TYP.)                    |      | SP-8             |
|            | μPC78L12  | 78L12      | Commercial        | 14.5              | 35   | 11.1               | 12.9   | 100mV           | 100mA          | 250mV                | 2.0 (TYP.)                    |      | SP-8             |
| μPC78L15   | 78L15     | Commercial | 17.5              | 35                | 13.8 | 16.2               | 150mV  | 100mA           | 300mV          | 2.0 (TYP.)           |                               | SP-8 |                  |

|                   | TYPE No. | Original   | Temperature Range | Supply Voltage (V) | Operation Temperature (°C)              |  | $\Delta V_o/\Delta T$ (mV/°C) | Linearity MAX. (%)                  | Initial Output Voltage (V)    |                     | Output Current MIN. |                 | Package Outline |
|-------------------|----------|------------|-------------------|--------------------|---|--|-------------------------------|-------------------------------------|-------------------------------|---------------------|---------------------|-----------------|-----------------|
|                   |          |            |                   |                    | MIN.                                    | MAX.                                     |                               |                                     | MIN.                          | MAX.                | Source              | Sink            |                 |
| FUNCTIONAL BLOCKS | μPC616A  | 3911       | Industrial        | 7.5~36             | -40                                     | +85                                      | 10                            | 2                                   | 2.36                          | 2.60                | 10μA                | 2mA             | TO-99           |
|                   | μPC616C  | 3911       | Industrial        | 7.5~36             | -25                                     | +85                                      | 10                            | 2                                   | 2.36                          | 2.60                | 10μA                | 2mA             | 8-LEAD DIP      |
|                   | μPC3911C | 3911       | Commercial        | 7.5~36             | -25                                     | +85                                      | 10                            | 2                                   | 2.36                          | 2.60                | 10μA                | 2mA             | 8-LEAD DIP      |
|                   | TYPE No. | Original   | Temperature Range | Supply Voltage (V) | Supply Current V <sub>CC</sub> =5V MAX. | Supply Current V <sub>CC</sub> =15V MAX. | Timing Error                  | Timing Error Drift with Temperature | Output Source or Sink Current | Rise Time of Output | Fall Time of Output | Package Outline |                 |
|                   | μPC617C  | 555        | Industrial        | +45~+15            | 6mA                                     | 15mA                                     | 1% (TYP.)                     | 50 PPM/°C (TYP.)                    | 200mA                         | 100nS (TYP.)        | 100nS (TYP.)        | 8-LEAD DIP      |                 |
| μPC1555C          | 555      | Commercial | +45~+15           | 6mA                | 15mA                                    | 1% (TYP.)                                | 50 PPM/°C (TYP.)              | 200mA                               | 100nS (TYP.)                  | 100nS (TYP.)        | 8-LEAD DIP          |                 |                 |

Industrial temperature range: -20°C ~ +80°C (metal can, ceramic DIP)

-20°C ~ +70°C (plastic molded DIP)

Consumer temperature range: 0°C ~ +70°C (plastic molded DIP)

## BIPOLAR MEMORY IC's

|                | Type No.                                       | Function   | Package Outline |
|----------------|--|--|-----------------|
| Bipolar Memory | μPB2089D                                       | 16 Words x 4 Bits TTL RAM (Open Collector Output)  | 16-pin DIP      |
|                | μPB2289D                                       |  |                 |
|                | μPB2200D                                       | 256 Words x 1 Bit TTL RAM (Three State Output)     | 16-pin DIP      |
|                | μPB2202D                                       |  |                 |
|                | μPB2205D                                       | 1024 Words x 1 Bit TTL RAM (Open Collector Output) | 16-pin DIP      |
|                | μPB2206D                                       | 256 Words x 1 Bit TTL RAM (Open Collector Output)  | 16-pin DIP      |
|                | μPB10142D                                      | 64 Words x 1 Bit ECL RAM (Open Emitter Output)     | 16-pin DIP      |
|                | μPB10144D                                      | 256 Words x 1 Bit ECL RAM (Open Emitter Output)    | 16-pin DIP      |
| μPB10148D      | 64 Words x 1 Bit ECL RAM (Open Emitter Output) | 16-pin DIP   |                 |