

## Operational Amplifier

| Part number                |             | Function*1 |      |      | Recommended power supply voltage*2 (V) | Common mode input voltage range TYP. (V)<br>T <sub>A</sub> = +25 °C | Input stage transistor | GND Input/Output on single power | Low V <sub>IO</sub> Low T <sub>A</sub> drift | Low input bias current | High speed | Wide band | Low noise | Low power | Packages*3 |   |    |    | Number of pins |
|----------------------------|-------------|------------|------|------|----------------------------------------|---------------------------------------------------------------------|------------------------|----------------------------------|----------------------------------------------|------------------------|------------|-----------|-----------|-----------|------------|---|----|----|----------------|
| Communication/industry use | General use | Single     | Dual | Quad |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           | D ED       | C | G2 | HA |                |
| μPC151                     | μPC741      | ○          |      |      | ±7.5 to ±16                            | V <sup>-</sup> +2 to V <sup>-</sup> -0.5                            | NPN                    |                                  | ○                                            |                        |            |           |           |           | ○          | ○ | ○  |    | 8              |
| μPC251                     | μPC1458     |            | ○    |      |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           | ○          | ○ | ○  |    | 8              |
| μPC354                     |             | ○          |      |      | ±3 to ±16                              | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | NPN                    |                                  | ⊗                                            | ⊗                      |            |           | ○         |           | ○          |   |    |    | 8              |
| μPC454                     |             |            | ○    |      |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           | ○          |   |    |    | 14             |
| μPC815                     |             | ○          |      |      | ±3 to ±20                              | V <sup>-</sup> +1.5 to V <sup>-</sup> -2.5                          | NPN                    |                                  | ⊗                                            | ○                      |            |           | ⊗         |           | ○          | ○ |    |    | 8              |
| μPC816                     |             | ○          |      |      | ±3 to ±20                              | V <sup>-</sup> +1.5 to V <sup>-</sup> -2.5                          | NPN                    |                                  | ⊗                                            | ○                      | ○          | ⊗         | ⊗         |           | ○          | ○ |    |    | 8              |
| μPC802                     | μPC4250     | ○          |      |      | ±1 to ±16                              | V <sup>-</sup> +0.2 to V <sup>-</sup> -0.6                          | PNP                    |                                  | ○                                            | ○                      |            |           |           | ⊗         |            | ○ | ○  |    | 8              |
| μPC801                     | μPC4081     | ○          |      |      |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 8              |
| μPC803                     | μPC4082     |            | ○    |      | ±5 to ±16                              | V <sup>-</sup> +2.3 to V <sup>+</sup>                               | J-FET                  |                                  |                                              | ⊗                      | ○          | ○         |           |           |            | ○ | ○  |    | 8              |
| μPC804                     | μPC4084     |            |      | ○    |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ |    |    | 14             |
| μPC811                     |             | ○          |      |      | ±5 to ±16                              | V <sup>-</sup> +3 to V <sup>-</sup> -1                              | J-FET                  |                                  | ○                                            | ⊗                      | ○          | ○         | ○         |           |            | ○ | ○  |    | 8              |
| μPC812                     |             |            | ○    |      |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 8              |
| μPC813                     |             | ○          |      |      | ±5 to ±16                              | V <sup>-</sup> +3 to V <sup>-</sup> -1                              | J-FET                  |                                  | ○                                            | ⊗                      | ⊗          | ○         | ○         |           |            | ○ | ○  |    | 8              |
| μPC814                     |             |            | ○    |      |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 8              |
| μPC821                     | μPC4071     | ○          |      |      |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 8              |
| μPC822                     | μPC4072     |            | ○    |      | ±5 to ±16                              | V <sup>-</sup> +2 to V <sup>+</sup>                                 | J-FET                  |                                  |                                              | ⊗                      | ○          | ○         | ○         |           |            | ○ | ○  | ○  | 8*4            |
| μPC824                     | μPC4074     |            |      | ○    |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 14             |
| μPC831                     | μPC4061     | ○          |      |      |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 8              |
| μPC832                     | μPC4062     |            | ○    |      | ±2 to ±16                              | V <sup>-</sup> +2 to V <sup>+</sup>                                 | J-FET                  |                                  |                                              | ⊗                      |            |           |           | ○         |            | ○ | ○  |    | 8              |
| μPC834                     | μPC4064     |            |      | ○    |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 14             |
| μPC258                     | μPC4558     |            | ○    |      | ±4 to ±16                              | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | PNP                    |                                  | ○                                            |                        |            | ○         | ○         |           | ○          | ○ | ○  |    | 8              |
| μPC458                     | μPC4741     |            |      | ○    |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           | ○          | ○ | ○  |    | 14             |
| μPC259                     | μPC4560     |            | ○    |      | ±4 to ±16                              | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | PNP                    |                                  | ○                                            |                        |            | ○         | ○         |           |            | ○ | ○  |    | 8              |
|                            | μPC4556     |            | ○    |      | ±4 to ±16                              | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | PNP                    |                                  | ○                                            |                        | ○          | ⊗         | ○         |           |            | ○ | ○  |    | 8              |
|                            | μPC4557     |            | ○    |      | ±4 to ±16                              | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | PNP                    |                                  | ○                                            |                        |            | ○         | ○         |           |            | ○ |    |    | 8              |
|                            | μPC4559     |            | ○    |      | ±4 to ±16                              | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | PNP                    |                                  | ○                                            |                        |            | ○         | ○         |           |            | ○ |    |    | 8              |
|                            | μPC4570     |            | ○    |      | ±4 to ±16                              | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | PNP                    |                                  | ○                                            |                        | ○          | ⊗         | ⊗         |           |            | ○ | ○  | ○  | 8*4            |
|                            | μPC4574     |            |      | ○    |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           |            | ○ | ○  |    | 14             |
|                            | μPC4572     |            | ○    |      | ±2 to ±7                               | V <sup>-</sup> +1 to V <sup>-</sup> -1                              | PNP                    |                                  | ○                                            |                        | ○          | ⊗         | ⊗         |           |            | ○ | ○  | ○  | 8*4            |
| μPC1251                    | μPC358      |            | ○    |      | +3 to ±30                              | GND to V <sup>-</sup> -1.5                                          | PNP                    | ○                                |                                              | ○                      |            |           |           | ○         | ○          | ○ | ○  | ○  | 8*4            |
| μPC451                     | μPC324      |            |      | ○    |                                        |                                                                     |                        |                                  |                                              |                        |            |           |           |           | ○          | ○ | ○  |    | 14             |
| μPC452                     | μPC3403     |            |      | ○    | +3 to ±32                              | GND to V <sup>-</sup> -1.5                                          | PNP                    | ○                                |                                              | ○                      |            |           |           |           |            | ○ | ○  |    | 14             |
| μPC842                     |             |            | ○    |      | ±3 to ±32                              | GND to V <sup>-</sup> -1.8                                          | PNP                    | ○                                |                                              |                        | ○          | ○         |           |           |            | ○ | ○  |    | 8              |
| μPC844                     |             |            |      | ○    |                                        |                                                                     |                        |                                  |                                              |                        | ○          | ○         |           |           |            | ○ | ○  |    | 14             |

○: Recommended for designing

⊗: High performance

⊗: Very high performance

\*1 : Single type has a offset adjust pin.

\*2 : For product indicated by +/- voltage, single supply voltage operation is possible if the input/output voltage range is observed.

\*3 : C, D, ED, G2 or HA shows Package Type, as follows.

C : Plastic DIP (300 mil)

D, ED: Ceramic DIP (300 mil)

G2 : Plastic SOP (225 mil)

HA : 9-pin plastic slim SIP

\*4 : HA has 9 pins.

## Comparator

| Part number                |             | Function |      |      | Recommended power supply voltage (V) | Common mode input voltage range TYP. (V)<br>T <sub>A</sub> = +25 °C | Input stage transistor | GND Input on single power | High speed | Low power | Output circuit type |                  | Packages*1 |   |    |    | Number of pins |
|----------------------------|-------------|----------|------|------|--------------------------------------|---------------------------------------------------------------------|------------------------|---------------------------|------------|-----------|---------------------|------------------|------------|---|----|----|----------------|
| Communication/industry use | General use | Single   | Dual | Quad |                                      |                                                                     |                        |                           |            |           | Open-collector      | Emitter-follower | D ED       | C | G2 | HA |                |
| μPC271                     | μPC311      | ○        |      |      | +5 to +32                            | V+0.3 to V+−1.2                                                     | PNP                    |                           | ○          |           | ○                   | ○                | ○          | ○ | ○  |    | 8              |
| μPC272                     | μPC319      |          | ○    |      | +5 to +32                            | V+2 to V+−2                                                         | NPN                    |                           | ○          |           | ○                   |                  | ○          | ○ | ○  |    | 14             |
| μPC277                     | μPC393      |          | ○    |      | +2 to +32                            | GND to V+−1.5                                                       | PNP                    | ○                         |            | ○         | ○                   |                  | ○          | ○ | ○  | ○  | 8*2            |
| μPC177                     | μPC339      |          |      | ○    |                                      |                                                                     |                        |                           |            |           |                     |                  | ○          | ○ | ○  |    | 14             |

\*1 : C, D, ED, G2 or HA shows Package Type, as follows.

C : Plastic DIP (300 mil)  
C : Plastic DIP (300 mil)  
D, ED : Ceramic DIP (300 mil)  
G2 : Plastic SOP (225 mil)  
HA : 9-pin plastic slim SIP

\*2 : HA has 9 pins.

## Fixed Output Voltage, 3-Terminal Regulator

| Type                    | Part number | Output current (A) | Output voltage (V) |     |   |   |   |   |   |   |     |    |    |    |     |     | Absolute maximum ratings |                                  | Package                          | Remarks                      |
|-------------------------|-------------|--------------------|--------------------|-----|---|---|---|---|---|---|-----|----|----|----|-----|-----|--------------------------|----------------------------------|----------------------------------|------------------------------|
|                         |             |                    | 3                  | 3.3 | 4 | 5 | 6 | 7 | 8 | 9 | 9.3 | 10 | 12 | 15 | 18  | 24  | Input voltage (V)        | Total power dissipation (W)*1    |                                  |                              |
| Positive voltage output | μPC78L00    | 0.1                |                    |     |   | ○ | ○ | ○ | ○ |   |     |    |    |    |     |     | 30                       | 0.7/2*3                          | • TO-92<br>• SOT-89              |                              |
|                         |             |                    |                    |     |   |   |   |   |   |   |     | ○  | ○  | ○  |     |     | 35                       |                                  |                                  |                              |
|                         | μPC78N00    | 0.3                |                    |     |   | ○ |   |   | ○ |   |     | ○  | ○  | ○  | ○   |     | 35                       | 12.5                             | • TO-126                         |                              |
|                         |             |                    |                    |     |   |   |   |   |   |   |     |    |    |    |     | ○   | 40                       |                                  |                                  |                              |
|                         | μPC78M00A   | 0.5                |                    |     |   | ○ | ○ | ○ | ○ | ○ |     | ○  | ○  | ○  | ○   |     | 35                       | 15                               | • MP-45*2                        | Improved version of μPC78M00 |
|                         |             |                    |                    |     |   |   |   |   |   |   |     |    |    |    |     | ○   | 40                       |                                  |                                  |                              |
|                         | μPC7800A    | 1.0                |                    |     |   | ○ |   |   | ○ |   | ○   |    | ○  | ○  | ○   |     | 35                       | 15                               | • MP-45*2                        | Improved version of μPC7800  |
|                         |             |                    |                    |     |   |   |   |   |   |   |     |    |    |    |     | ○   | 40                       |                                  |                                  |                              |
|                         | μPC29L00    | 0.1                | ○                  | ○   | ○ | ○ |   |   |   |   |     |    |    |    |     |     | 16                       | 0.7/2*3                          | • TO-92<br>• SOT-89              | Low dropout voltage type     |
|                         | μPC29M00    | 0.5                | ○                  | ○   |   | ○ |   |   | ○ | ○ |     | ○  | ○  |    |     |     | 20                       | 1.0/2.0*4<br>15                  | • MP-3<br>• MP-3Z*5<br>• MP-45*2 | Low dropout voltage type     |
| μPC2900                 | 1.0         | ○                  | ○                  |     | ○ |   |   | ○ | ○ |   | ○   | ○  |    |    |     | 20  | 1.0/2.0*4<br>15          | • MP-3<br>• MP-3Z*5<br>• MP-45*2 | Low dropout voltage type         |                              |
| μPC24A00                | 2.0         |                    |                    |     | ○ |   |   |   |   |   |     | ○  | ○  |    |     | 36  | 20                       | • MP-45*2                        | Low dropout voltage type         |                              |
| μPC24M00A               | 0.5         |                    |                    |     | ○ | ○ | ○ | ○ | ○ |   | ○   | ○  | ○  | ○  |     | 36  | 15                       | • MP-45*2                        | Low dropout voltage type         |                              |
| μPC2400A                | 1.0         |                    |                    |     | ○ | ○ | ○ | ○ | ○ |   | ○   | ○  | ○  | ○  |     | 36  | 15                       | • MP-45*2                        | Low dropout voltage type         |                              |
| Negative voltage output | μPC79L00    | 0.1                |                    |     |   | ○ |   |   | ○ |   |     |    |    |    |     |     | −30                      | 0.7                              | • TO-92                          |                              |
|                         |             |                    |                    |     |   |   |   |   |   |   |     | ○  | ○  |    |     |     | −35                      |                                  |                                  |                              |
|                         | μPC79N00    | 0.3                |                    |     |   | ○ |   |   | ○ |   |     | ○  | ○  | ○  |     |     | −35                      | 12.5                             | • TO-126                         |                              |
|                         |             |                    |                    |     |   |   |   |   |   |   |     |    |    |    |     | ○   | −40                      |                                  |                                  |                              |
|                         | μPC79M00    | 0.5                |                    |     |   | ○ |   |   | ○ |   |     | ○  | ○  | ○  |     |     | −35                      | 15                               | •MP-45*2                         |                              |
|                         |             |                    |                    |     |   |   |   |   |   |   |     |    |    |    |     | ○   | −40                      |                                  |                                  |                              |
| μPC7900A                | 1.0         |                    |                    |     | ○ |   |   | ○ |   |   | ○   | ○  | ○  |    |     | −35 | 15                       | • MP-45*2                        | Improved version of μPC7900      |                              |
|                         |             |                    |                    |     |   |   |   |   |   |   |     |    |    | ○  | −40 |     |                          |                                  |                                  |                              |

\*1 : Limited by internal circuit

\*2 : TO-220 Plastic insulated package

\*3 : With 16 cm<sup>2</sup> × 0.7 mm ceramic substrate

\*4 : With 7.5 cm<sup>2</sup> × 0.7 mm ceramic substrate

\*5 : Surface mount package of MP-3

## Variable Output Voltage Regulator

| Type                    | Part number       | Output current (A) | Output voltage range (V) | Absolute maximum ratings |                             | Package                                      | Remarks                         |
|-------------------------|-------------------|--------------------|--------------------------|--------------------------|-----------------------------|----------------------------------------------|---------------------------------|
|                         |                   |                    |                          | Input voltage (V)        | Total power dissipation (W) |                                              |                                 |
| Positive voltage output | $\mu$ PC141/305*3 | 0.05               | 4.5 to 30                | 40                       | 0.35, 0.5/0.35, 0.44        | • 8-pin DIP (plastic/ceramic)<br>• 8-pin SOP |                                 |
|                         | $\mu$ PC317       | 1.5                | 1.3 to 30                | 40                       | 15*1                        | • MP-45*2                                    | 3-pin regulator                 |
|                         | $\mu$ PC1093      | 0.15               | 2.5 to 36                | 37                       | 0.48, 0.7, 2*4              | • 8-pin SOP<br>• TO-92<br>• SOT-89           | Shunt regulator                 |
|                         | $\mu$ PC1943      | 0.05               | 1.26 to 24               | 25                       | 1.6*4                       | • SOT-89                                     | Shunt regulator for Low Voltage |
|                         | $\mu$ PC1944      | 0.05               | 1.26 to 24               | 25                       | 0.385, 0.56                 | • 8-pin SOP<br>• TO-92                       | Shunt regulator for Low Voltage |
| Negative voltage output | $\mu$ PC337       | 1.5                | -1.3 to -30              | -40                      | 20*1                        | • TO-220AB                                   | 3-pin regulator                 |

\*1 : Limited by internal circuit

\*2 : Plastic insulated package

\*3 :  $\mu$ PC141 is for communication/industry use.\*4 : When mounted on 16 cm<sup>2</sup> (0.7 mm thick) ceramic board

## Regulator with System Reset

| Type                            | Part number   | Output current (A) | Output voltage (V) | Reset start voltage (V) | Reset output logic |             | Absolute maximum ratings |                             | Package          | Remarks            |
|---------------------------------|---------------|--------------------|--------------------|-------------------------|--------------------|-------------|--------------------------|-----------------------------|------------------|--------------------|
|                                 |               |                    |                    |                         | Active low         | Active high | Input voltage (V)        | Total power dissipation (W) |                  |                    |
| Positive voltage output         | $\mu$ PC2251  | 0.1                | 3                  | 2.85                    | ○                  |             | 12                       | 1.2*                        | • TO-126 (4-pin) | Low dropout type   |
|                                 | $\mu$ PC2252  | 0.1                | 3                  | 2.85                    |                    | ○           | 12                       | 1.2*                        | • TO-126 (4-pin) | Low dropout type   |
|                                 | $\mu$ PC2253  | 0.1                | 5                  | 2.85                    | ○                  |             | 12                       | 1.2*                        | • TO-126 (4-pin) | Low dropout type   |
|                                 | $\mu$ PC2254  | 0.1                | 5                  | 2.85                    |                    | ○           | 12                       | 1.2*                        | • TO-126 (4-pin) | Low dropout type   |
|                                 | $\mu$ PC2255  | 0.1                | 5                  | 4.75                    | ○                  |             | 12                       | 1.2*                        | • TO-126 (4-pin) | Low dropout type   |
|                                 | $\mu$ PC2256  | 0.1                | 5                  | 4.75                    |                    | ○           | 12                       | 1.2*                        | • TO-126 (4-pin) | Low dropout type   |
|                                 | $\mu$ PC2260  | 0.5                | 5                  | 4.85                    | ○                  |             | 35                       | 20*                         | • TO-220 (5-pin) | Low dropout type   |
| Supervisory for Micro-processor | $\mu$ PC2270A | —                  | —                  | 4.3                     | ○                  | ○           | 8                        | 0.35                        | • 8-pin DIP      | Manual Reset Input |
|                                 |               |                    |                    |                         |                    |             |                          | 0.44                        | • 8-pin SOP      |                    |
|                                 |               |                    |                    |                         |                    |             |                          | 0.35                        | • 9-pin Slim SIP |                    |
|                                 | $\mu$ PC1074A | 0.01               | 2 ~ 5.18           | Adjustable              | ○                  |             | 40                       | 0.5                         | • 16-pin SOP     | Watch-dog Timer    |

\*: Limited by internal circuit

## High Precision Reference Voltage

| Part number  | Input voltage range (V) | Output voltage (V) | Output current (mA) | Total power dissipation (mW) | Output voltage vs. temperature (ppm/°C) | Package                        |
|--------------|-------------------------|--------------------|---------------------|------------------------------|-----------------------------------------|--------------------------------|
| $\mu$ PC1060 | 4.5 to 40               | 2.5 $\pm$ 0.025    | 10                  | 350, 500                     | 40                                      | • 8-pin DIP (plastic, ceramic) |

## Switching Regulator Control Circuit

| Part number  | Input voltage range (V) | Absolute maximum ratings |                                            | Package                                              | Output circuit operation mode                                                                             | Applications                                 |
|--------------|-------------------------|--------------------------|--------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------|
|              |                         | Output current (mA)      | Total power dissipation (W)                |                                                      |                                                                                                           |                                              |
| $\mu$ PC494  | 7 to 40                 | 250                      | 1, 0.78* <sup>2</sup> , 0.65* <sup>2</sup> | • 16-pin DIP (plastic)<br>• 16-pin SOP* <sup>1</sup> | Push-pull/single selectable                                                                               | General purpose                              |
| $\mu$ PC1094 | 11 to 24                | 1200 (peak)              | 0.57, 0.55                                 | • 14-pin DIP (plastic)<br>• 14-pin SOP               | Totem pole circuit configuration<br>Single mode                                                           | Can operate up to 500 kHz<br>General purpose |
| $\mu$ PC1099 | 11.5 to 24              | 1200 (peak)              | 1, 0.694                                   | • 16-pin DIP (plastic)<br>• 16-pin SOP               | Totem pole circuit configuration<br>Single mode                                                           | Can operate up to 500 kHz<br>General purpose |
| $\mu$ PC1905 | 12 to 30                | 1200 (peak)              | 1, 0.694                                   | • 16-pin DIP (plastic)<br>• 16-pin SOP               | Totem pole circuit configuration<br>Single mode                                                           | Can operate up to 500 kHz<br>General purpose |
| $\mu$ PC1906 | 12 to 30                | 1200 (peak)              | 1, 0.694                                   | • 16-pin DIP (plastic)<br>• 16-pin SOP               | Totem pole circuit configuration<br>Single mode                                                           | Can operate up to 500 kHz<br>General purpose |
| $\mu$ PC1900 | 12 to 30                | 1200 (peak)              | 1.225, 0.775                               | • 24-pin DIP (plastic)<br>• 24-pin SOP               | Totem pole circuit configuration<br>2 outputs                                                             | Can operate up to 500 kHz<br>General purpose |
| $\mu$ PC1100 | 3.6 to 40               | 25                       | 1, 0.694                                   | • 16-pin DIP (plastic)<br>• 16-pin SOP               | 2 outputs (synchronous control possible)<br>If one output is shorted, both outputs will be turned OFF.    | DC/DC converter                              |
| $\mu$ PC1150 | 3.6 to 40               | 25                       | 1, 0.694                                   | • 16-pin DIP (plastic)<br>• 16-pin SOP               | 2 outputs (synchronous control possible)<br>If one output is shorted, only the output will be turned OFF. | DC/DC converter                              |

\*1 :  $\mu$ PC494G is 375 mil.  $\mu$ PC494GS is 300 mil.

\*2 : When mounted on  $5 \times 5 \text{ cm}^2$  (1.6 mm thick) glass epoxy board.

## Functional Block

| Function           | Part number  | Features                                                                                                                           | Package                             |
|--------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Analog Multiplexer | $\mu$ PD5205 | Single-pole 8 position mode/double-pole 4 position mode<br>Supply Voltage: 44 V, ON Resistance: 270 $\Omega$ TYP.                  | • 24-pin shrink DIP<br>• 24-pin SOP |
| Precision Timer    | $\mu$ PC1555 | CR Timer, Operating Temperature: $-20 \sim +80^\circ\text{C}$<br>Supply Voltage: 4.5 ~ 16 V, Free Running Frequency: 0.1 ~ 100 kHz | • 8-pin DIP<br>• 8-pin SOP          |
|                    | $\mu$ PD5555 | CMOS CR Timer, CMOS Type of $\mu$ PC1555<br>Supply Voltage: 3 ~ 16 V, Free Running Frequency: 0.1 ~ 500 kHz                        | • 8-pin DIP<br>• 8-pin SOP          |
|                    | $\mu$ PD5556 | CMOS CR Timer<br>Dual Type of $\mu$ PD5555                                                                                         | • 8-pin DIP<br>• 8-pin SOP          |

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