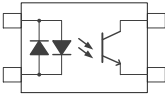
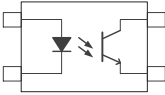
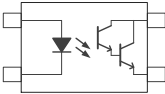
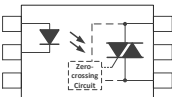


# Photo-coupler / Driver / Optical-isolation Device

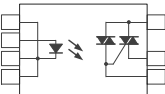
## ◆ Photo-coupler (transistor / Darlington output)

| Block                                                                             | Part number | Package     | Diode input    | Output volt.   | CTR      |
|-----------------------------------------------------------------------------------|-------------|-------------|----------------|----------------|----------|
|  | UPC814      | LSOP-4      | bi-directional | 35V            | 20~300   |
|                                                                                   | UPC816      | SMD-4 DIP-4 | uni-direction  | 80V            | 50~600   |
|  | UPC357      | SMD-4       |                | 80V            |          |
|                                                                                   | UPC10XX     | LSOP-4      |                | 80V            |          |
|                                                                                   | UPC817      | SMD-4 DIP-4 |                | 35V            | 200~300  |
|                                                                                   | UPC8171     | DIP-4       |                | 350V           |          |
|  | UPC815      | DIP-4       |                | Darlington 35V | 600~7500 |

## ◆ Zero-crossing / random-phase photo-coupler (TRIAC output)

| Block                                                                               | Part number | Package | Switching     | TRIAC volt. | Trigger current                                   |
|-------------------------------------------------------------------------------------|-------------|---------|---------------|-------------|---------------------------------------------------|
|  | UMOC308X    | DIP-6   | Zero-crossing | 800V        | xxx3: Max 5mA<br>xxx2: Max 10mA<br>xxx1: Max 15mA |
|                                                                                     | UMOC307X    | DIP-6   | Random-phase  | 800V        |                                                   |
|                                                                                     | UMOC306X    | DIP-6   | Zero-crossing | 600V        |                                                   |
|                                                                                     | UMOC305X    | DIP-6   | Random-phase  | 600V        | Max 15mA                                          |
|                                                                                     | UOC3021S    | DIP-4   | Random-phase  | 400V        |                                                   |
|                                                                                     | UOC3020S    | DIP-4   | Random-phase  | 400V        |                                                   |

## ◆ SSR (solid-state relay), power TRIAC output

| Block                                                                               | Configuration & characteristics                                                                     | Part Number | Output current |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------|----------------|
|  | Package: SMD-8A DIP-8A<br>Isolation: 5kV<br>TRIAC voltage rating: 600V<br>Trigger-current: max 10mA | UPT0133     | 300mA          |
|                                                                                     |                                                                                                     | UPT1223     | 600mA          |
|                                                                                     |                                                                                                     | UPT2223     | 900mA          |
|                                                                                     |                                                                                                     | UPT3223     | 1200mA         |

*Note: Please refer to UTC catalog for complete portfolio.*



# Voltage Detection IC

## ◆ Standard voltage detection IC

| Part NO. | Output         | Reset time       | Feature          |
|----------|----------------|------------------|------------------|
| 81CXX    | Push-pull      | 30/120/200/300ms | 0.7V operational |
| UIC809   | Push-pull      | 240ms            |                  |
| 89CXX    | Push-pull      | Programmable     | 0.7V operational |
| 88CXX    | Push-pull      | Programmable     |                  |
| 82CXX    | Push-pull      |                  | 0.7V operational |
| UIC813   | Push-pull      | 320ms            | Active-high      |
| 81NXX    | Open-drain     | 30/120/200/300ms | 0.7V operational |
| 89NXX    | Open-drain     | Programmable     | 0.7V operational |
| 88NXX    | Open-drain     | Programmable     |                  |
| 82NXX    | Open-drain     |                  | 0.7V operational |
| 80NXX    | Open-drain     |                  | Vcc_max 33V      |
| 81XX     | Open-Collector |                  |                  |

## ◆ Voltage detection IC with manual reset / watchdog / power-fault

| Part NO. | Reset output              | Reset time           | Manual reset     | Watchdog function | Power-fault                 |
|----------|---------------------------|----------------------|------------------|-------------------|-----------------------------|
| UIC811   | Push-pull active-low      | 240ms                | Low-active input |                   |                             |
| UIC812   | Open-drain active-low     | 240ms                |                  |                   |                             |
| 84NXX    | Open-drain active-low     | Programmable         |                  |                   |                             |
| 82XX     | Open-collector active-low | 50/100/200/400/800ms |                  |                   |                             |
| UWD817   | Push-pull active-low      | 210ms                |                  | WDI               | Push-pull output active-low |
| UWD706   | Push-pull active-low      | 200ms                |                  | WDI + WDO         |                             |
| UWD813   | Push-pull active-high     | 230ms                |                  | WDI + WDO         |                             |
| UWD708   | Push-pull output pair     | 200ms                |                  |                   |                             |

## ◆ System reset IC / push-button controller

|         |                    |       |                        |
|---------|--------------------|-------|------------------------|
| UTL7712 | Voltage supervisor | 86N1C | System reset IC        |
| UIC832  | Reset timer IC     | 83NXX | Push-button controller |

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# Voltage Level Translation / Level Shifter

- ◆ Auto-direction-sensing voltage-level translating transceiver

| Ch# | Part Number                                           |
|-----|-------------------------------------------------------|
| 1   | UTXB0101 UTXS0101 ULSF0101                            |
| 2   | UTXB0102 UNTB0102 UTXS0102 UVXS0102 ULSF0102          |
| 4   | UTXB0104 UVXS0104 UTXS0104 UNTS0104 ULSF0204 UNTS0304 |
| 6   | UTXB0106                                              |
| 8   | UTXB0108 UTXS0108 ULSF0108                            |

- ◆ 74-series bi-directional transceiver

| Ch# | Part Number                                      |
|-----|--------------------------------------------------|
| 1   | U74AVC1T45 U74LVC1T45                            |
| 2   | U74AVC2T45 U74AVC2T245 U74AVCH2T45 U74LVC2T45    |
| 4   | U74GTL2014 U74LVC4T3144 U74AVC4T245 U74AVC4TD245 |

- ◆ I<sup>2</sup>C bus management IC

| Function                                 | Part Number              |
|------------------------------------------|--------------------------|
| Bi-directional voltage-level translation | UCA9517 UCA9617 UMX82B96 |
| Analog switch                            | UCA9306                  |
| Analog multiplexer / de-multiplexer      | UCA9543 UCA9546          |

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