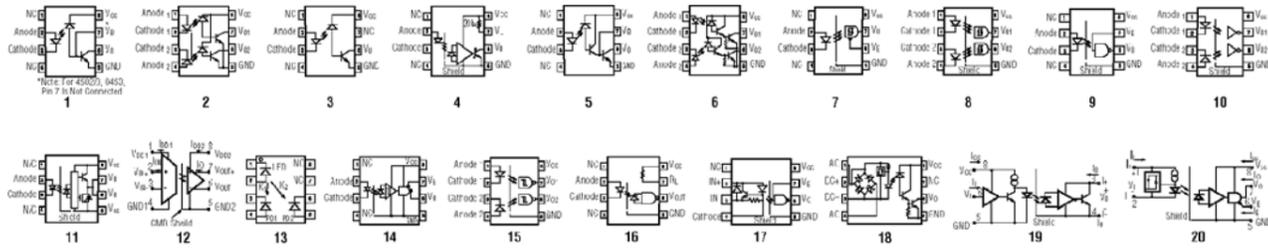


Optocouplers



1 Mbd Transistor Output (6N135/6 Type)

| Mfr.'s Type | Fig. | Description | If mA | CTR Min. % | tprop μ s | CMR V/ μ s Min. | Hermetic* |
|-------------|------|----------------------------------|-------|------------|---------------|---------------------|-----------|
| 6N135 | 1 | S08 | 16.0 | 7 | 2.0 | 100 | Yes |
| HCPL-0500 | 1 | S08 Surface Mount Package | 16.0 | 7 | 2.0 | 100 | Yes |
| 6N136 | 1 | S08 | 16.0 | 19 | 1.0 | 100 | Yes |
| HCPL-0501 | 1 | S08 Surface Mount Package | 16.0 | 19 | 1.0 | 100 | Yes |
| HCPL-2531 | 2 | Dual Channel 300 Mil DII Package | 16.0 | 19 | 1.0 | 100 | Yes |
| HCPL-4502 | 1 | S08 | 16.0 | 19 | 1.0 | 100 | — |
| HCPL-4503 | 1 | S08 | 16.0 | 19 | 1.0 | 15 K | — |
| HCPL-4504 | 3 | S08 | 12.0 | 26 | 1.0 | 10 K | — |
| HCPL-4506 | 4 | 8 Pin DIP 300 Mil | 16.0 | 44 | 0.5 | 15 K | Yes |
| HCPL-0466 | 4 | S08 Surface Mount Package | 16.0 | 44 | 0.5 | 15 K | — |

1 Mbd Transistor Output (6N135/6 Type)

| Mfr.'s Type | Fig. | Description | If mA | CTR Min. % | tprop μ s | CMR V/ μ s Min. | Hermetic* |
|-------------|------|--|-------|------------|---------------|---------------------|-----------|
| 6N137 | 9 | 8 Pin DIP 300 Mil | 5.0 | — | 0.1 | 100 | Yes |
| HCPL-0600 | 9 | S08 Surface Mount Package | 5.0 | — | 0.1 | 100 | Yes |
| HCPL-2630 | 10 | Dual Channel 300 Mil DII Package | 5.0 | — | 0.1 | 100 | Yes |
| HCPL-2601 | 9 | 8 Pin DIP 300 Mil | 5.0 | — | 0.1 | 5 K | Yes |
| HCPL-0601 | 9 | S08 Surface Mount Package | 5.0 | — | 0.1 | 5 K | Yes |
| HCPL-2631 | 10 | Dual Channel 300 Mil DII Package | 5.0 | — | 0.1 | 5 K | Yes |
| HCPL-2611 | 9 | 8 Pin DIP 300 Mil | 5.0 | — | 0.1 | 10 K | — |
| HCPL-0661 | 10 | Dual Channel S08 Surface Mount Package | 5.0 | — | 0.1 | 10 K | — |

*Hermetic devices available as commercial grade, MIL-Prf-38534 certified class H and class K.

100 Kdb High Gain Transistor Output (6N138/9 Type)

| Mfr.'s Type | Fig. | Description | If mA | CTR Min. % | tprop μ s | CMR V/ μ s Min. | Hermetic* |
|-------------|------|--|------------|------------|---------------|---------------------|-----------|
| 6N138 | 5 | 8 Pin DIP 300 Mil | 1.6 | 300 | 10.0 | 100 | Yes |
| HCPL-2730 | 6 | Dual Channel 300 Mil DII Package | 1.6 | 300 | 10.0 | 100 | Yes |
| 6N139 | 5 | 8 Pin DIP 300 Mil | 0.5 | 400 | 10.0 | 500 | Yes |
| HCPL-0701 | 5 | S08 Surface Mount Package | 0.5 | 400 | 10.0 | 500 | Yes |
| HCPL-2731 | 6 | Dual Channel 300 Mil DII Package | 0.5 | 400 | 10.0 | 500 | Yes |
| HCPL-0731 | 6 | Dual Channel S08 Surface Mount Package | 0.5 | 400 | 10.0 | 500 | Yes |
| HCPL-4731 | 5 | Dual Channel 300 Mil DII Package | 40 μ A | 800 | 500.0 | 1K | — |

Integrate Gate Drive

| Mfr.'s Type | Fig. | If mA | tprop μ s | CMR V/ μ s Min. | Iout A Min. |
|-------------|------|-------|---------------|---------------------|-------------|
| HCPL-3120 | 11 | 7 | 0.5 | 15 K | 2 |

Isolation Amp/Analog

Note: Hermetic package. Isolation amp available.

| Mfr.'s Type | Fig. | Non Linearity | B.W. Hz | Gain Tolerance |
|-------------|------|---------------|---------|----------------|
| HCPL-7800 | 12 | 0.35% | 85.0 K | 5% |
| HCR200 | 13 | 0.07% | 1.5 M | 15/5% |
| HCR201 | 13 | 0.07% | 1.5 M | 15/5% |

5 MBd Logic Gate

| Mfr.'s Type | Fig. | Description | If mA | CTR Min. % | tprop μ s | CMR V/ μ s Min. | Hermetic* |
|-------------|------|----------------------------------|-------|------------|---------------|---------------------|-----------|
| HCPL-2200 | 7 | 8 Pin DIP 300 Mil | 1.6 | — | 0.3 | 1K | Yes |
| HCPL-0201 | 7 | S08 Surface Mount Package | 1.6 | — | 0.3 | 1K | — |
| HCPL-2231 | 8 | Dual Channel 300 Mil DII Package | 1.6 | — | 0.3 | 1K | — |
| HCPL-2211 | 7 | 8 Pin DIP 300 Mil | 1.6 | — | 0.3 | 5K | — |
| HCPL-0211 | 7 | S08 Surface Mount Package | 1.6 | — | 0.3 | 5K | — |
| HCRW2211 | 7 | VDE: 1414 V 400 Mil Package | 1.6 | — | 0.3 | 5K | — |
| HCPL-2232 | 8 | Dual Channel 300 Mil DII Package | 1.6 | — | 0.3 | 5K | — |

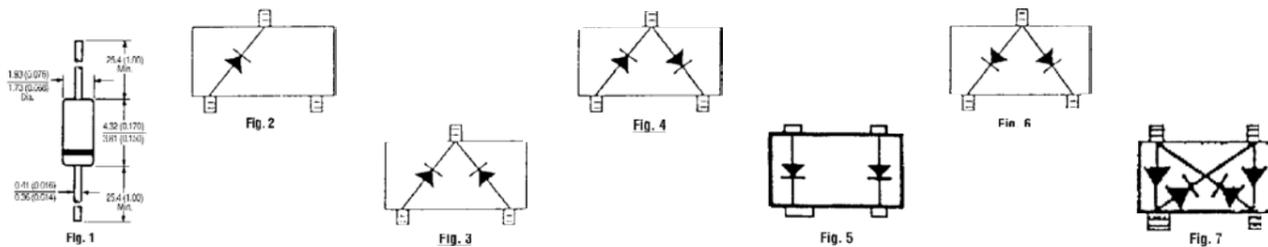
Application Specific

| Mfr.'s Type | Fig. | Description | Hermetic* |
|-------------|------|--|-----------|
| HCPL-4562 | 1 | Wideband Analog Video, 0.15% Non Linearity, 0.3%/°C Gain Temperature | — |
| HCPL-2400 | 14 | Hi-Speed 20 mbd If = 4 mA, Single/Dual | Yes |
| HCPL-2430 | 15 | Hi-Speed 20 mbd If = 4 mA, Single/Dual | Yes |
| HCPL-2300 | 16 | Low Current If = 0.50 mA, 5 mbd | — |
| HCPL-2602 | 17 | Integrate Line Termination, 10 mbd | Yes |
| HCPL-3700 | 18 | AC/DC Voltage Sense Ith = 1.6 mA | Yes |
| HCPL-3760 | 18 | AC/DC Voltage Sense Ith = 1.6 mA | Yes |
| HCPL-4100 | 19 | 20 mA Current Loop Tx. Guaranteed 20 mA loop | — |
| HCPL-4200 | 20 | 20 mA Current Loop Rx. Guaranteed 20 mA loop | — |

*Hermetic devices available as commercial grade, MIL-Prf-38534 certified class H and class K.

*Hermetic devices available as commercial grade, MIL-Prf-38534 certified class H and class K.

Diodes



Many of these diodes are also available in the ultra small SC-70 package.

Surface Mount Pin Diodes

| Mfr.'s Type | Fig. | Min. V _{en} (V) @ 10 μ A | Max. Cr (pF) @ V _n = 50 V \dagger V _n = 20 V \ddagger V _n = 5 V | Max. R _s (Ω) f = 100 MHz \dagger f = 10 mA \ddagger f = 5 mA | Typical Lifetime t (ns) I _r = 50 mA, I _n = 250 mA \dagger I _r = 10 mA, I _n = 6 mA |
|---------------|------|---------------------------------------|--|--|---|
| 5082-3080 | 1 | 100 | 0.40 | 2.5 | 1300 |
| 5082-3081 | 1 | 100 | 8.40 | 3.5 | 2500 |
| HSMP-3810-BLK | 2 | 100 | 0.35 | 4.0 | 1500 |
| HSMP-3814-BLK | 3 | 100 | 0.35 | 4.0 | 1500 |

Surface Mount Pin Diodes (continued)

| Mfr.'s Type | Fig. | Min. V _{en} (V) @ 10 μ A | Max. Cr (pF) @ V _n = 50 V \dagger V _n = 20 V \ddagger V _n = 5 V | Max. R _s (Ω) f = 100 MHz \dagger f = 10 mA \ddagger f = 5 mA | Typical Lifetime t (ns) I _r = 50 mA, I _n = 250 mA \dagger I _r = 10 mA, I _n = 6 mA |
|---------------|------|---------------------------------------|--|--|---|
| HSMP-3820-BLK | 2 | 35 | 1.00 \dagger | 0.6 \dagger | 70 \dagger |
| HSMP-3822-BLK | 4 | 35 | 1.00 \dagger | 0.6 \dagger | 70 \dagger |
| — | 2 | 200 | 0.30 | 1.5 | 500 |
| HSMP-3890-BLK | 2 | 50 | 0.30 \ddagger | 2.5 \ddagger | 200 |