

Power Drivers - continued

| Mfr.   | Pins Pkg  | Description  | Mfrs. List No. | Order Code | 1+     | 25+    | 100+  | 250+  | +  |
|--------|-----------|--|----------------|------------|--------|--------|-------|-------|----|
| 75452  | TI 8 SOIC | Dual Positive NAND Power Driver - Latch Up Free to 20V | SN75452BD      | 110-3194   | 45.00  | 32.00  | 24.00 | 16.00 | -- |
| 75452  | TI 8 DIL  | Dual Positive NAND Power Driver - Latch Up Free to 20V | SN75452BP      | 110-6034   | 45.00  | 32.00  | 24.00 | 17.00 | -- |
| 75453  | TI 8 DIL  | Dual Positive OR Power Driver - Latch Up Free to 20V   | SN75453BP      | 407-872    | 47.00  | 34.00  | 25.00 | 17.00 | -- |
| 75453  | TI 8 DIL  | Dual Positive OR Power Driver - Latch Up Free to 20V   | SN75453BP      | 110-6035   | 45.00  | 32.00  | 24.00 | 16.00 | -- |
| 754410 | TI 16 DIL | Quadruple Half-H Driver                                | SN754410NEG4   | 959-2997   | 138.00 | 106.00 | 81.00 | 71.00 | -- |

MOSFET Drivers



422885

| Pins | Pkg    | Description                            | Mfrs. List No. | Order Code | 1+     | 10+   | 100+  |
|------|--------|--|----------------|------------|--------|-------|-------|
| 4120 | 8 SOIC | 6A-Peak Low-Side MOSFET Driver         | MIC4120YME     | 110-0665   | 111.00 | 88.00 | 76.00 |
| 4126 | 8 SOIC | Dual 1.5A-Peak Low-Side MOSFET Drivers | MIC4126YME     | 110-0666   | 120.00 | 96.00 | 82.00 |
| 4127 | 8 SOIC | Dual 1.5A-Peak Low-Side MOSFET Drivers | MIC4127YME     | 110-0667   | 120.00 | 96.00 | 82.00 |
| 4128 | 8 SOIC | Dual 1.5A-Peak Low-Side MOSFET Drivers | MIC4128YME     | 110-0668   | 120.00 | 96.00 | 82.00 |

MOSFET/IGBT Power Drivers



The motor drive control ICs are high voltage, high speed power MOSFET and IGBT drivers with independent high and low side reference output channels.

- Logic input compatible with standard CMOS or LSTTL output
- Floating channel designed for bootstrap operation
- Gate drive supply range from 10V to 20V
- Tolerant to negative transient voltage
- 5V Schmitt-triggered input logic

228811

| Pins/Package | Function         | Features                    | Voltage Offset max.(V) | O/P Source Current min.(mA) | O/P Sink Current min.(mA) | Output Voltage (V) min/max | Turn-On/Off Time max.(ns) | Mfrs. List No. | Order Code | 1+       | 25+      | 100+     |
|--------------|------------------|-----------------------------|------------------------|-----------------------------|---------------------------|----------------------------|---------------------------|----------------|------------|----------|----------|----------|
| 2010         | 14/DIL           | Hi & Lo MOS Driver          | 200                    | 3000                        | 3000                      | 10/20                      | 95/65                     | IR2010PBF      | 108-0609   | 206.00   | 148.00   | 113.00   |
| 2010         | 16/SOIC          | Hi & Lo MOS Driver          | 200                    | 3000                        | 3000                      | 10/20                      | 95/65                     | IR2010SPBFB    | 108-0610   | 213.00   | 153.00   | 117.00   |
| 2011         | 8/DIL            | Hi & Lo MOS Driver          | 200                    | 1000                        | 1000                      | 10/20                      | 80/60                     | IR2011PBF      | 108-0612   | 172.00   | 123.00   | 94.00    |
| 2085         | 8/SOIC           | Half-Bridge Driver          | 100                    | 1000                        | 1000                      | -                          | -                         | IR2085SPBFB    | 108-0613   | 199.00   | 143.00   | 109.00   |
| 2102         | 8/SOIC           | Independent High & Low Side | 600                    | 100                         | 210                       | 10/20                      | 130/90                    | IR2102SPBFB    | 910-1829   | 186.00   | 134.00   | 102.00   |
| 2111         | 8/DIL            | Half Bridge Driver          | 600                    | 200                         | 420                       | 10/20                      | 850/150                   | IR2111PBF      | 910-1730   | 177.00   | 127.00   | 97.00    |
| 2111         | 8/SOIC           | Half Bridge Driver          | 600                    | 200                         | 420                       | 10/20                      | 850/150                   | IR2111S        | 360-7070   | 132.00   | 113.00   | 99.00    |
| 2112         | 14/DIL           | Independent High & Low Side | 600                    | 200                         | 420                       | 10/20                      | 125/105                   | IR2112PBF      | 910-1799   | 185.00   | 133.00   | 101.00   |
| 2113         | 14/DIL           | Independent High & Low Side | 600                    | 2000                        | 2000                      | 10/20                      | 120/94                    | IR2113PBF      | 910-1748   | 309.00   | 222.00   | 169.00   |
| 2117         | 8/DIL            | High Side                   | 600                    | 200                         | 420                       | 10/20                      | 125/105                   | IR2117PBF      | 910-1756   | 157.00   | 113.00   | 86.00    |
| 2118         | 8/DIL            | High Side                   | 600                    | 200                         | 420                       | 10/20                      | 125/105                   | IR2118PBF      | 910-1764   | 157.00   | 113.00   | 86.00    |
| 2118         | 8/SOIC           | High Side                   | 600                    | 200                         | 420                       | 10/20                      | 125/105                   | IR2121PBF      | 910-1705   | 330.00   | 236.00   | 180.00   |
| 2125         | 8/DIL            | High Side                   | 500                    | 1000                        | 2000                      | 12/18                      | 150/150                   | IR2125PBF      | 910-1721   | 330.00   | 236.00   | 180.00   |
| 2127         | 8/DIL            | High Side                   | 600                    | 200                         | 420                       | 10/20                      | 150/100                   | IR2127PBF      | 910-1772   | 238.00   | 171.00   | 131.00   |
| 2128         | 8/DIL            | High-Side Driver            | 600                    | 200                         | 420                       | 12/20                      | 200/150                   | IR2128PBF      | 108-0616   | 234.00   | 168.00   | 128.00   |
| 2128         | 8/SOIC           | High-Side Driver            | 600                    | 200                         | 420                       | 12/20                      | 200/150                   | IR2128SPBFB    | 108-0617   | 261.00   | 188.00   | 143.00   |
| 2130         | 28/DIL           | 3 Phase Bridge              | 600                    | 200                         | 420                       | 10/20                      | 675/475                   | IR2130PBF      | 910-1713   | 749.00   | 537.00   | 406.00   |
| 2130         | 44/PLCC3         | 3 Phase Bridge              | 600                    | 200                         | 420                       | 10/20                      | 675/475                   | IR2130JPBFB    | 910-1837   | 800.00   | 574.00   | 434.00   |
| 2131         | 44/PLCC3HI & 3Lo | MO Driver                   | 600                    | 200                         | 420                       | 10/20                      | 1300/600                  | IR2131JPBFB    | 108-0618   | 784.00   | 562.00   | 425.00   |
| 2133         | 28/DIL           | 3 Phase Bridge Driver       | 600                    | 200                         | 420                       | 10/20                      | 750/700                   | IR2133PBF      | 108-0619   | 784.00   | 562.00   | 425.00   |
| 2135         | 44/PLCC3         | 3 Phase Bridge Driver       | 600                    | 200                         | 420                       | 10/20                      | 750/700                   | IR2135JPBFB    | 108-0620   | 811.00   | 582.00   | 440.00   |
| 2135         | 28/DIL           | 3 Phase Bridge Driver       | 600                    | 200                         | 420                       | 10/20                      | 750/700                   | IR2135PBF      | 108-0621   | 784.00   | 562.00   | 425.00   |
| 2151         | 8/DIL            | Half Bridge Driver          | 600                    | 100                         | 210                       | 10/20                      | -                         | IR2151PBF      | 910-1780   | 168.00   | 121.00   | 92.00    |
| 2153         | 8/DIL            | Half Bridge Driver          | 600                    | 200                         | 400                       | 10/20                      | -                         | IR2153         | 360-7252   | 121.00   | 100.00   | 88.00    |
| 2153         | 8/SOIC           | Half Bridge Driver          | 600                    | 200                         | 400                       | 10/20                      | -                         | IR2153DPBFB    | 910-1861   | 181.00   | 130.00   | 99.00    |
| 2233         | 44/PLCC3         | 3 Phase Bridge              | 1200                   | 200                         | 420                       | 10/20                      | 700/700                   | IR2233J        | 360-7288   | 1,543.00 | 1,214.00 | 1,121.00 |
| 2233         | 44/PLCC3         | 3 Phase Bridge              | 1200                   | 200                         | 420                       | 10/20                      | 700/700                   | IR2233JPBFB    | 910-1870   | 1,610.00 | 1,175.00 | 896.00   |
| 2233         | 28/DIL           | 3 Phase Bridge Driver       | 1200                   | 200                         | 420                       | 10/20                      | 750/700                   | IR2233PBF      | 108-0629   | 1,655.00 | 1,324.00 | 1,018.00 |
| 2235         | 44/PLCC3         | 3 Phase Bridge Driver       | 1200                   | 200                         | 420                       | 10/20                      | 750/700                   | IR2235JPBFB    | 108-0630   | 1,972.00 | 1,439.00 | 1,098.00 |
| 2235         | 28/SOIC          | 3 Phase Bridge Driver       | 1200                   | 200                         | 420                       | 10/20                      | 750/700                   | IR2235SPBFB    | 108-0631   | 1,972.00 | 1,439.00 | 1,098.00 |
| 2302         | 8/DIL            | Half-Bridge Driver          | 600                    | 120                         | 250                       | 10/25                      | -                         | IR2302PBF      | 108-0632   | 137.00   | 98.00    | 75.00    |
| 21091        | 8/DIL            | Half-Bridge Driver          | 600                    | 120                         | 250                       | 10/20                      | 680/170                   | IR21091PBF     | 108-0614   | 181.00   | 130.00   | 99.00    |
| 21091        | 8/SOIC           | Half-Bridge Driver          | 600                    | 120                         | 250                       | 10/20                      | 680/170                   | IR21091SPBFB   | 108-0615   | 186.00   | 133.00   | 102.00   |
| 21531        | 8/DIL            | Half-Bridge Driver          | 600                    | 250                         | 400                       | 10/20                      | -                         | IR21531PBF     | 108-0622   | 172.00   | 123.00   | 94.00    |

Power IC Relays



Power IC Relays

The Photovoltaic AC Relay (PVA) is a single-pole solid state replacement for electromechanical relay for switching DC and/or AC loads.

This range of relays consists of inverse series connected MOSFETs to provide distortion-free control for bi-directional and DC signals.

With power MOSFET output, the relays can control analogue signals from millivolts to hundreds of volts, from nanoamps to hundreds of milliamps, from DC to hundreds of KHz.

All advantages of a solid-state technology are met with switching life greater than 10<sup>10</sup> operations, actuation times of less than 100µs, minimal false thermal voltage generation, low control power requirements.

The range eliminates the need for a coil suppression diode, eliminates bounce, is EMI free and shock/vibration resistant.

228812

| Pins/Package | Operating Voltage Range V(pk) °C | Max. On-State Resistance @25°C Ω (AC/DC) | Max. Load Current @ 40°C AC/DC (mA) | Nominal Control Current (DC) (mA) | Minimum Off-State Resistance Ω | Dielectric Strength V <sub>(RMS)</sub> | Max. Response Time On/Off (µs) | Max. Thermal Offset Voltage @5mA Control (µV) | Mfrs. List No. | Order Code | 1+     | 25+    | 100+   |
|--------------|----------------------------------|--|-------------------------------------|-----------------------------------|--------------------------------|--|--------------------------------|---|----------------|------------|--------|--------|--------|
| 172          | 4/DIL-8                          | to +60                                   | 0.5/-                               | 1000/1000                         | 10                             | 0.1G                                   | 4000                           | 2000/500                                      | PVAZ172NPBFB   | 910-3856   | 600.00 | 431.00 | 329.00 |
| 172          | 4/DIL-8                          | +60                                      | -/0.25                              | 1500/1500                         | 10                             | 0.1G                                   | 4000                           | 2000/500                                      | PVDZ172NPBFB   | 910-3864   | 510.00 | 366.00 | 279.00 |
| 312          | 6/DIL                            | to +250                                  | 10/3                                | 190/320                           | 2                              | 0.25G                                  | 4000                           | 3000/500                                      | PVT312PBF      | 910-3899   | 153.00 | 110.00 | 84.00  |
|              | 6/DIL                            | to +                                     | /                                   | /                                 |                                | G                                      | 4000                           | /   | PVT312LPBFB    | 910-3902   | 156.00 | 112.00 | 86.00  |
| 312          | 6/SOIC                           | to +250                                  | 15/4.25                             | 170/300                           | 2                              | 0.25G                                  | 4000                           | 3000/500                                      | PVT312LSPBFB   | 910-3910   | 159.00 | 114.00 | 87.00  |
| 322          | 8/DIL                            | to +250                                  | 10/10                               | 170/170                           | 2                              | 0.25G                                  | 4000                           | 3000/500                                      | PVT322PBF      | 910-3929   | 321.00 | 230.00 | 176.00 |
| 412          | 6/DIL                            | to +400                                  | 27/7                                | 140/0.21                          | 10                             | 1000G                                  | 4000                           | 2000/500                                      | PVT412         | 735-292    | 140.00 | 104.00 | 89.00  |
|              | 6/DIL                            | to +                                     | /                                   | /                                 |                                | G                                      | /                              | /   | PVT412PBF      | 910-4038   | 153.00 | 110.00 | 84.00  |
| 412          | 6/DIL                            | to +400                                  | 35/9                                | 120/200                           | 3                              | 0.4G                                   | 4000                           | 2000/500                                      | PVT412L        | 360-7471   | 156.00 | 112.00 | 91.00  |
| 412          | 6/DIL                            | to +400                                  | 35/9                                | 120/200                           | 3                              | 0.4G                                   | 4000                           | 2000/500                                      | PVT412LPBFB    | 910-3937   | 156.00 | 112.00 | 86.00  |
| 412          | 6/SOIC                           | to +400                                  | 27/7                                | 140/210                           | 3                              | 0.4G                                   | 4000                           | 2000/500                                      | PVT412SPBFB    | 910-3945   | 154.00 | 111.00 | 85.00  |
| 414          | 6/DIL                            | to +400                                  | 27/7                                | 140/0.21                          | 10                             | 1000G                                  | 4000                           | 500/200                                       | PVU414         | 735-309    | 327.00 | 234.00 | 190.00 |
| 414          | 6/DIL                            | to +400                                  | 27/7                                | 140/0.21                          | 10                             | 1000G                                  | 4000                           | 500/200                                       | PVU414PBFB     | 910-4046   | 327.00 | 234.00 | 179.00 |

Prices are in Thai Baht and exclude 7% VAT. Due to the volatile nature of certain products, prices are subject to change without notice.