

Power Management Division motor control ICs and regulators

Motor control ICs

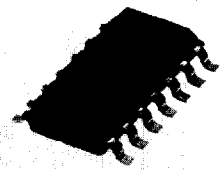
Since introducing our range of motor control ICs in 1993, it has grown steadily and includes many device and package variations not listed below. For a complete set of data sheets for motor

control applications, please refer to the Semelab Power Management databook, available from your agent or distributor, or direct from Semelab on the number below. All devices are available in wafer and cut die form.

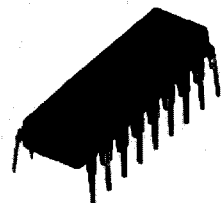
| Part Number | Description | Temperature range | Package Types |
|-------------|---------------------|-------------------|---------------|
| IP1M12J | 100mA Dual H Bridge | -55°C to 125°C | 14 pin CERDIP |
| IP2M12J | 100mA Dual H Bridge | -40°C to 85°C | 14 pin CERDIP |
| IP2M12N | 100mA Dual H Bridge | -40°C to 85°C | 14 pin DIP |
| IP2M12D | 100mA Dual H Bridge | -40°C to 85°C | 14 pin SOIC |
| IP3M12J | 200mA Dual H Bridge | -0°C to 70°C | 14 pin CERDIP |
| IP3M12N | 200mA Dual H Bridge | -0°C to 70°C | 14 pin DIP |
| IP3M12D | 200mA Dual H Bridge | -0°C to 70°C | 14 pin SOIC |

Voltage regulators

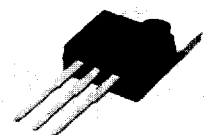
| Output (A) | Output Voltage | 1% Output Tolerance | | 4% Output Tolerance | | Packages |
|---------------|----------------|---------------------|------------|---------------------|-----------|--|
| 0.5A | Fixed +5V | IP78M05A | IP140MA-05 | IP78M05 | IP140M-05 | TO39 D-PAK 6 pin CERDIP |
| | Fixed +12V | IP78M12A | IP140MA-12 | IP78M12 | IP140M-12 | |
| | Fixed +15V | IP78M15A | IP140MA-15 | IP78M15 | IP140M-15 | |
| | Fixed -5V | IP79M05A | IP120MA-05 | IP79M05 | IP120M-05 | |
| | Fixed -12V | IP79M12A | IP120MA-12 | IP79M12 | IP120M-12 | |
| | Fixed -15V | IP79M15A | IP120MA-15 | IP79M15 | IP120M-15 | |
| 1.5A | Fixed +5V | IP7805A | IP140A-05 | IP7805 | IP140-05 | TO3 TO39 TO66 TO220 TO220SM TO257 |
| | Fixed +12V | IP7812A | IP140A-12 | IP7812 | IP140-12 | |
| | Fixed +15V | IP7815A | IP140A-15 | IP7815 | IP140-15 | |
| | +1.25V to +37V | IP117A | | IP117 | | |
| | +1.25V to +37V | IP117AHV | IP317AHV | IP117HV | IP317HV | |
| | Fixed -5V | IP7905A | IP120A-05 | IP7905 | IP120-05 | |
| | Fixed -12V | IP7912A | IP120A-12 | IP7912 | IP120-12 | |
| | Fixed -15V | IP7915A | IP120A-15 | IP7915 | IP120-15 | |
| 3A | Fixed +5V | IP123A-05 | IP323A-05 | IP123-05 | IP323-05 | TO3 TO247 TO220 TO220SM TO257 |
| | Fixed +12V | IP123A-12 | IP323A-12 | IP123-12 | IP323-12 | |
| | Fixed +15V | IP123A-15 | IP323A-15 | IP123-15 | IP323-15 | |
| | Fixed -5V | IP1R17A-05 | IP3R17A-05 | IP1R17-05 | IP3R17-05 | |
| | Fixed -12V | IP1R17A-12 | IP3R17A-12 | IP1R17-12 | IP3R17-12 | |
| | Fixed -15V | IP1R17A-15 | IP3R17A-15 | IP1R17-15 | IP3R17-15 | |
| | +1.2V to +37V | IP150A | IP350A | IP150 | IP350 | |
| +1.2V to +37V | IP1R07A | IP3R07A | IP1R07 | IP3R07 | | |
| 5A | Fixed +5V | IP1R18A-05 | IP3R18A-05 | IP1R18-05 | IP3R18-05 | TO3 TO247 |
| | Fixed +12V | IP1R18A-12 | IP3R18A-12 | IP1R18-12 | IP3R18-12 | |
| | Fixed +15V | IP1R18A-15 | IP3R18A-15 | IP1R18-15 | IP3R18-15 | |
| | Fixed -5V | IP1R19A-05 | IP3R19A-05 | IP1R19-05 | IP3R19-05 | |
| | Fixed -12V | IP1R19A-12 | IP3R19A-12 | IP1R19-12 | IP3R19-12 | |
| 5A | Fixed -15V | IP1R19A-15 | IP3R19A-15 | IP1R19-15 | IP3R19-15 | TO3 TO247 |
| | +1.2V to +37V | IP138A | IP338A | IP138 | IP338 | |



14 Pin SOIC (D)



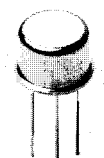
18 Pin PDIP (N)



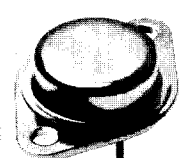
TO220 (T)



TO247 (V)



TO39 (H)



TO3 (K)