

## Motorola Bipolar Integrated Circuits Group

### Types of Linear IC's Available in SOIC Packages

The table below lists those Linear IC devices that will form the core of our initial introduction lineup. All current and future Linear IC products are potential candidates for the SOIC package as long as their chip size fits the die-bond area (flag) of the package and their power dissipation is within the package range.

| Device           | Package | Function                                                     |
|------------------|---------|--------------------------------------------------------------|
| LF347D           | SO-14   | Family of BIFET Operational Amplifiers                       |
| LF351D           | SO-8    | Family of BIFET Operational Amplifiers                       |
| LF353D           | SO-8    | Family of BIFET Operational Amplifiers                       |
| LM201AD          | SO-8    | General Purpose Adjustable Operational Amplifier             |
| LM208D,AD        | SO-8    | Precision Operational Amplifiers                             |
| LM211D           | SO-8    | High Performance Voltage Comparator                          |
| LM224D           | SO-14   | Quad Low-Power Operational Amplifiers                        |
| LM239D           | SO-14   | Quad Single-Supply Comparators                               |
| LM258D           | SO-8    | Dual Lower-Power Operational Amplifier                       |
| LM293D           | SO-8    | Dual Comparators                                             |
| LM301AD          | SO-8    | General Purpose Adjustable Operational Amplifier             |
| LM308D,AD        | SO-8    | Precision Operational Amplifier                              |
| LM311D           | SO-8    | High Performance Voltage Comparator                          |
| LM317LD          | SO-8    | Low-Current 3-Terminal Adjustable Positive Voltage Regulator |
| LM324D,AD        | SO-14   | Quad Low-Power Operational Amplifier                         |
| LM339D           | SO-14   | Quad Single-supply Comparators                               |
| LM348D           | SO-14   | Quad MC1741 Operational Amplifier                            |
| LM358D           | SO-8    | Dual Low-Power Operational Amplifier                         |
| LM385D-1.2       | SO-8    | Micropower Voltage Reference Diodes                          |
| LM385D-2.5       | SO-8    | Micropower Voltage Reference Diodes                          |
| LM393D           | SO-8    | Dual Comparators                                             |
| LM2901D          | SO-14   | Quad Single-Supply Comparators                               |
| LM2902D          | SO-14   | Quad Low-Power Operational Amplifier                         |
| LM2903D          | SO-8    | Dual Comparators                                             |
| LM2904D          | SO-8    | Dual Low-Power Operational Amplifier                         |
| MC1350D/TYA1350D | SO-8    | IF Amplifier                                                 |
| MC1403D          | SO-8    | Precision Low-Voltage Reference                              |
| MC1436D,CD       | SO-8    | High Voltage Operational Amplifier                           |
| MC1455D          | SO-8    | Timing Circuit                                               |
| MC1458D,CD       | SO-8    | Dual Operational Amplifier                                   |
| MC1458SD         | SO-8    | High-Slew-Rate Dual Operational Amplifier                    |
| MC1496D          | SO-14   | Balanced Modulator-Demodulator                               |
| MC1723CD         | SO-14   | Adjustable Positive Or Negative Voltage Regulator            |
| MC1733CD         | SO-14   | Differential Video Amplifier                                 |
| MC3346D          | SO-14   | General Purpose Transistor Array                             |
| MC1741CD         | SO-8    | General-Purpose Operational Amplifier                        |
| MC1741SCD        | SO-8    | High-Slew-Rate Amplifier                                     |
| MC1747CD         | SO-14   | Dual MC1741 Operational Amplifier                            |
| MC1776CD         | SO-8    | Programmable Operational Amplifier                           |
| MC13062D         | SO-16   | VHF FM Tuner                                                 |
| MC3357D          | SO-16   | Low-Power FM IF Amplifier                                    |
| MC3359FN         | PLCC-20 | High Gain, Low-Power FM IF Amplifier                         |
| MC3361D          | SO-16   | Low-Power FM IF Amplifier                                    |
| MC2831AD         | SO-16   | Low Power FM Transmitter                                     |
| MC13055D         | SO-16   | LAN Receiver                                                 |
| MC3401D          | SO-14   | Quad Operational Amplifier                                   |
| MC3403D          | SO-14   | Quad Differential-Input Operational Amplifier                |
| MC3423D          | SO-8    | Overvoltage Sensing Circuit                                  |
| MC3456D          | SO-14   | Dual Timing Circuit                                          |
| MC3458D          | SO-8    | Dual-Low Power Operational Amplifier                         |
| MC3470FN         | PLCC-20 | Floppy Disk Read Amplifier System                            |
| MC3471FN         | PLCC-20 | Floppy Disk Write Controller Head Driver Amplifier           |
| MC4558CD         | SO-8    | Dual High-Frequency Operational Amplifier                    |
| MC4741CD         | SO-14   | Quad MC1741 Operational Amplifier                            |
| MC33171D         | SO-8    | Low-Power, Single Supply Operational Amplifiers              |
| MC33172D         | SO-8    | Low-Power, Single Supply Operational Amplifiers              |
| MC33174D         | SO-8    | Low-Power, Single Supply Operational Amplifiers              |
| MC340010,AD,BD   | SO-8    | Single JFET Input Operational Amplifier                      |
| MC34002D,AD,BD   | SO-8    | Dual JFET Input Operational Amplifier                        |
| MC34004D,BD      | SO-14   | Quad JFET Input Operational Amplifier                        |
| MC34010AFN       | PLCC-44 | Electronic Telephone Circuit                                 |
| MC34011AFN       | PLCC-44 | Electronic Telephone Circuit                                 |
| MC34012-1D       | SO-8    | Telephone Tone Ringer                                        |
| MC34012-2D       | SO-8    | Telephone Tone Ringer                                        |

## SURFACE MOUNT PRODUCTS (continued)

### Linear and Interface

All the major bipolar analog families are now represented in surface mount packaging. Standard SOIC and PLCC packages are augmented by SO-8 (SOP-8, SOIC Power) and DPAK for Linear regulators. In addition, tape

and reel shipping to the updated RS481A is now on line for the industries' largest array of op-amps, regulators, interface, data conversion, consumer, telecom and automotive Linear ICs.

| Device      | Package | Function                                                     |
|-------------|---------|--------------------------------------------------------------|
| LF347D      | SO-14   | Family of BIFET Operational Amplifiers                       |
| LF351D      | SO-8    | Family of BIFET Operational Amplifiers                       |
| LF353D      | SO-8    | Family of BIFET Operational Amplifiers                       |
| DAC-08CD,ED | SO-16   | High-Speed 8-Bit Multiplying D-to-A Converter                |
| LM11CD,CLD  | SO-8    | Precision Operational Amplifiers                             |
| LM201AD     | SO-8    | General Purpose Adjustable Operational Amplifier             |
| LM208D,AD   | SO-8    | Precision Operational Amplifiers                             |
| LM211D      | SO-8    | High Performance Voltage Comparator                          |
| LM224D      | SO-14   | Quad Low-Power Operational Amplifiers                        |
| LM239D      | SO-14   | Quad Single-Supply Comparators                               |
| LM258D      | SO-8    | Dual Low-Power Operational Amplifier                         |
| LM293D      | SO-8    | Dual Comparators                                             |
| LM301AD     | SO-8    | General Purpose Adjustable Operational Amplifier             |
| LM308D,AD   | SO-8    | Precision Operational Amplifier                              |
| LM311D      | SO-8    | High Performance Voltage Comparator                          |
| LM317LD     | SO-8    | Low-Current 3-Terminal Adjustable Positive Voltage Regulator |
| LM324D,AD   | SO-14   | Quad Low-Power Operational Amplifier                         |
| LM339D      | SO-14   | Quad Single-Supply Comparators                               |
| LM348D      | SO-14   | Quad MC1741 Operational Amplifier                            |
| LM358D      | SO-8    | Dual Low-Power Operational Amplifier                         |
| LM385D-1.2- | SO-8    | Micropower Voltage Reference Diodes                          |
| LM385D-2.5  | SO-8    | Micropower Voltage Reference Diodes                          |
| LM393D      | SO-8    | Dual Comparators                                             |
| LM2901D     | SO-14   | Quad Single-Supply Comparators                               |
| LM2902D     | SO-14   | Quad Low-Power Operational Amplifier                         |
| LM2903D     | SO-8    | Dual Comparators                                             |
| LM2904D     | SO-8    | Dual Low-Power Operational Amplifier                         |
| LM3900D     | SO-14   | Quad Single-Supply Operational Amplifier                     |
| MC1350D     | SO-8    | IF Amplifier                                                 |
| MC1377FN    | PLCC-20 | Color Television RGB to PAL/NTSC Encoder                     |
| MC1403D     | SO-8    | Precision Low-Voltage Reference                              |
| MC1408-D7   | SO-16   | 8-Bit Multiplying Digital To Analog Converter                |
| MC1408-D8   | SO-16   | 8-Bit Multiplying Digital To Analog Converter                |
| MC1436D,CD  | SO-8    | High Voltage Operational Amplifier                           |
| MC1455D     | SO-8    | Timing Circuit                                               |
| MC1458D,CD  | SO-8    | Dual Operational Amplifier                                   |
| MC1458SD    | SO-8    | High-Slew-Rate Dual Operational Amplifier                    |
| MC1496D     | SO-14   | Balanced Modulator-Demodulator                               |
| MC1723CD    | SO-14   | Adjustable Positive Or Negative Voltage Regulator            |
| MC1733CD    | SO-14   | Differential Video Amplifier                                 |
| MC1741CD    | SO-8    | General-Purpose Operational Amplifier                        |
| MC1741SCD   | SO-8    | High-Slew-Rate Operational Amplifier                         |
| MC1747CD    | SO-14   | Dual MC1741 Operational Amplifier                            |
| MC1776CD    | SO-8    | Programmable Operational Amplifier                           |
| MC3346D     | SO-14   | General-Purpose Transistor Array                             |
| MC3357D     | SO-16   | Low-Power FM IF Amplifier                                    |
| MC3359FN    | PLCC-20 | Low-Power Narrow-Band FM IF Amplifier                        |
| MC3361D     | SO-16   | Low-Voltage Narrow-Band FM IF Amplifier                      |
| MC3386D     | SO-14   | General-Purpose Transistor Array                             |
| MC3401D     | SO-14   | Quad Operational Amplifier                                   |