

## Op - Amp. & Comparators

### Features:

- Two independent, high gain, internally frequency compensated op amps
- Wide Supply Voltage Range Single & Split Supply
- Very Low Supply Current Drain typ 0.4 mA independent of supply voltage
- Low Input Biasing current and offset current
- High precision comparators
- Allows sensing near ground and Output voltage near to GND
- Compatible with all forms of logic
- Power Drain suitable for battery operation

### Application:

Battery Charger, Switching Power Supply, Consumer Product, Industrial Application, PC & PC Peripheral, Telecommunication

Part No.	V <sub>CC</sub> (V)	Supply Current	Channels	Slew rate	Input Offset Voltage	Gain Bandwidth	Package
GM358	± 16	2.0mA	2	0.1V/ μS	9.0mV	1MHz	SOP-8, DIP-8
GM393	± 18	0.4mA	2	0.4V/ μS	3mV	1MHz	SOP-8, DIP-8

## Op - Amp. & Voltage References

### Features:

- Space and cost saving for power management and power supply
- Wide Supply Voltage Range typ 3V to 32V
- High Precision 0.4% of Programmable or 2.5V Voltage Reference
- Low Input Offset Voltage typ 0.5mV
- Low Supply Current typ 350μA
- Large output voltage swing

### Application:

Switching Mode Power Supply, Power Management, Data Acquisition, Battery Charger, Linear Regulator

Part No.	Supply Range (V)	V <sub>REF</sub> (V)	Op-Amps V <sub>io</sub> (max)	I <sub>CC</sub> (Typ.)	Precision (%)	GBP MHz. (Typ)	SR V/ μS (Typ)	I <sub>OUT</sub> sink	Current Generator	Package
GMA101A	4.5 to 36	1.24	5mV	2mA	2 - 1 - 4	1	-	15mA	1.4mA	SOP-8, DIP-8
GMA102A	4.5 to 36	2.5	4.5mV Comp: 5mV	0.8mA	0.4	2.1	2	-	-	SOP-16
GMA103A	3.0 to 36	2.5	3mV/ 5mV	0.7mA	0.02	0.9	0.4	-	-	SOP-8, DIP-8
GMA104A	3.0 to 36	2.5	3mV/ 5mV	1.4mA	0.4	0.9	0.3	-	-	SOP-16, DIP-16

\* For more information about new product, please contact our sales office or distributors.