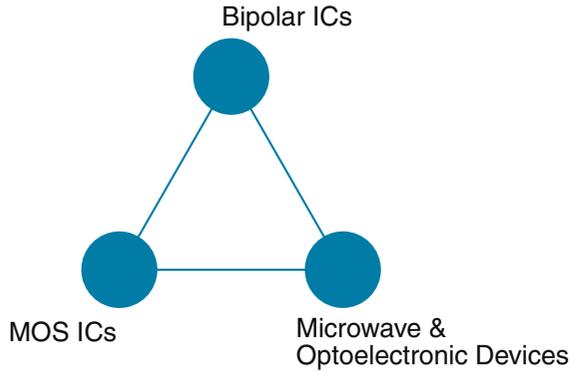


Semiconductor Devices Division

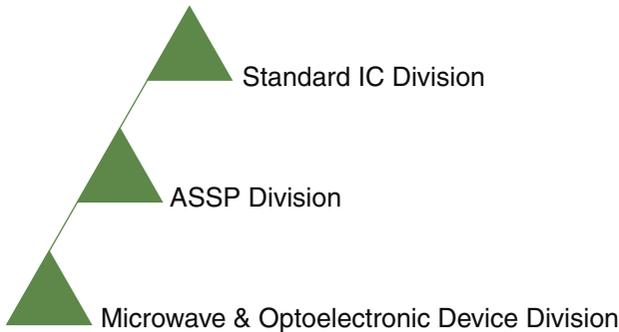
Products

Products in our semiconductor devices division are mostly analog semiconductors classified broadly into three groups:



Bipolar ICs for general-purpose use, such as power supply ICs and audio/video ICs are main products with operational amplifiers and comparators enjoying the highest production volume in the world. Bipolar ICs are used extensively in everyday electronic equipment, such as AV equipment, PC peripherals, mobile communications equipment, game consoles etc.

These semiconductor products are handled by the following three divisions, covering product planning to designing:



NJW1148

The NJW1148 is a single-chip high-performance audio processor containing our unique "eala" surround technology and other sound enhancement technologies, such as SRS™ and BBE®.



The Standard IC Division promotes development of new operational amplifier and new power supply IC products to meet user's strong demands for higher-speed and higher-precision analog ICs of our main products.

During this fiscal year, the division has strengthened its new-product planning department and design department. As a result, this division is marketing a large number of new power supply ICs and new TV audio processor products in both Japan and Asia including China. Although digitization is growing, our analog technologies are used for the newest digital application and user's demands for analog ICs are still strong, so the division will further strengthen its foundations in the analog IC market.

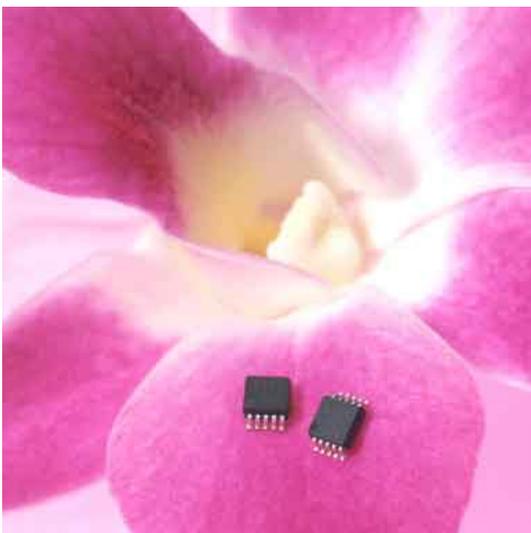
The ASSP Division has developed the 4096-color STN driver for main displays and sub-displays for cellular phones. Also, the division has developed an STN driver for car audios, reinforcing its line of STN color LCD drivers.

The Microwave & Optoelectronic Device Division deals in GaAs products for cellular phones, wireless LANs, etc., and optoelectronic devices for AV equipment, PCs, etc.

- For GaAs products, the division develops front-end ICs and antenna switches mainly for the domestic cellular phone market, and is enjoying popularity in terms of features such as high performance and super-compact packages. The division has developed front-end ICs for next-generation W-CDMA cellular phones to the commercial stage. Also, it has expanded its switch line for overseas cellular-phone applications and wireless LANs.

- For optoelectronic products, the division has developed an optical pickup photo IC for CD digital audio and is now putting its energies into further speeding this product.

The semiconductor industry sees big fluctuations in demand and price and its products' life short, but our analog products are our niche and have a relatively small fluctuation range. We are now developing next-generation products, while maintaining stable profits.



NJM2890

The NJM2890 is a high-precision output/low dropout voltage regulator with ON/OFF control in a VSP-10 package. It is for cellular phones and other portable items.



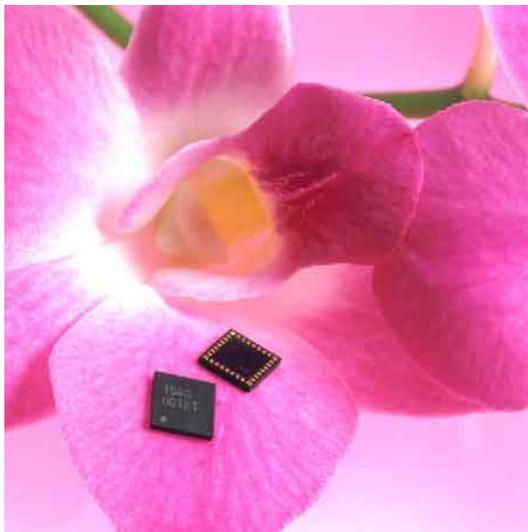
NJU6825

The NJU6825 is an STN LCD driver that supports displays up to 162COM × 128RGB in 4,096 colors.

It produces high-quality images because it selects the optimum 16 gradations (4,096 colors) from 32 gradations in the built-in color palette according to the LCD panel's characteristics.

Business results

- The bipolar IC market is reduced due to prolonged inventory adjustment caused by drop in demand for AV equipment, PCs and PC peripherals, cellular phones, etc., which are the main application fields for bipolar ICs. Therefore, the sales results for bipolar ICs have remained sluggish throughout this fiscal year.
 - Sales of MOS IC products, such as color LCDs and surround audio processor IC products, were expanded by sales activities. However, results for crystal oscillator ICs and OEM (original equipment manufacturing) products were sluggish, so results for MOS ICs overall remained stagnant.
 - Sales for microwave & optoelectronic devices remained sluggish because demand from major customers for GaAs ICs for cellular phones was slack. The results also dropped for optoelectronic devices mainly for consumer equipment.
- As a result, sales figures were ¥41,499 million (a drop of 21.4% over the previous consolidated fiscal year).



NJG1540JA3
Antenna switch for PDC application (NJG1540JA3)
This 5 × 10 antenna switch has been developed for domestic cellular phones using most popular PDC mode; it is ideal for the dual band asymmetrical packet mode.