



# New Product Announcement

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## AZV3001

## Single Channel Low Power Comparator

The AZV3001 is a single channel comparator developed for new generation low-power comparator families. It is ideally suited for battery-powered devices and systems which require low voltage operation.

The supply current typically consumes 6 $\mu$ A and it helps extend battery life in applications.

The AZV3001 operates at a low voltage of 1.3V and is fully operational in the range between 1.6 to 5.5V.

AZV3001 is in the miniaturized package, X2-DFN1410-6 to reduce the space needed on PCB boards.

The dual channel AZV3002 is available later this year, in an 8-pin U-FLGA1616-8 package.



### The Diodes' Advantage

- **Low Supply Current 6 $\mu$ A/comparator (typ.)**  
Helps prolong battery life and lower system power consumption
- **Internal Hysteresis**  
Provides the immunity towards small voltage fluctuations
- **Low Voltage Operation (down to 1.3V)**  
Suitable for systems with low voltage
- **Miniaturized package options**  
Reduces the PCB board space required

### Applications

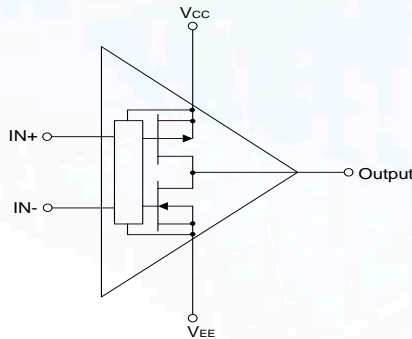
- Mobile communication
- Battery powered devices
- General purpose portable devices
- Notebooks
- General purpose low voltage applications



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### Functional Block Diagram



### Product Portfolio

Part Number	Supply Voltage Range(V)	Supply Current @ VCC=5V typ. (mA)	Input Offset Voltage (typ/max) (mV)	Input Bias Current typ.(nA)	Input Common Mode Voltage (V)	Number of Channels	Operating Ambient Temperature Range, Ta( °C)	Output Type	Package Outline
AZV3001	1.6~5.5	0.006	0.5/6.0	0.001	VEE to VCC	1	-40 to +85	Push Pull	X2-DFN1410-6
AZV3002*	1.6~5.5	0.009	0.5/6.0	0.001	VEE to VCC	2	-40 to +85	Push Pull	U-FLGA1616-8
AZV331	2.5~5.5	0.04	1.7/7.0	10	-0.1 to 2	1	-40 to +85	Open Collector	SC70-5, SOT25
AZV393	2.5~5.5	0.07	1.7/7.0	10	-0.1 to 2	2	-40 to +85	Open Collector	SO-8, TSSOP-8, MSOP-8
APX339	2.5~5.5	0.24	1.7/7.0	10	V-+0.2V to V+0.2V	4	-40 to +85	Open Collector	TSSOP-14

\* The AZV3002 is available later this year

### Ordering Information

Part Number	Package Code	Packaging	7" Tape and Reel		Remark
			Quantity	Part Number Suffix	
AZV3001FZ4-7	FZ4	X2-DFN1410-6	5000/Tape & Reel	-7	Available