

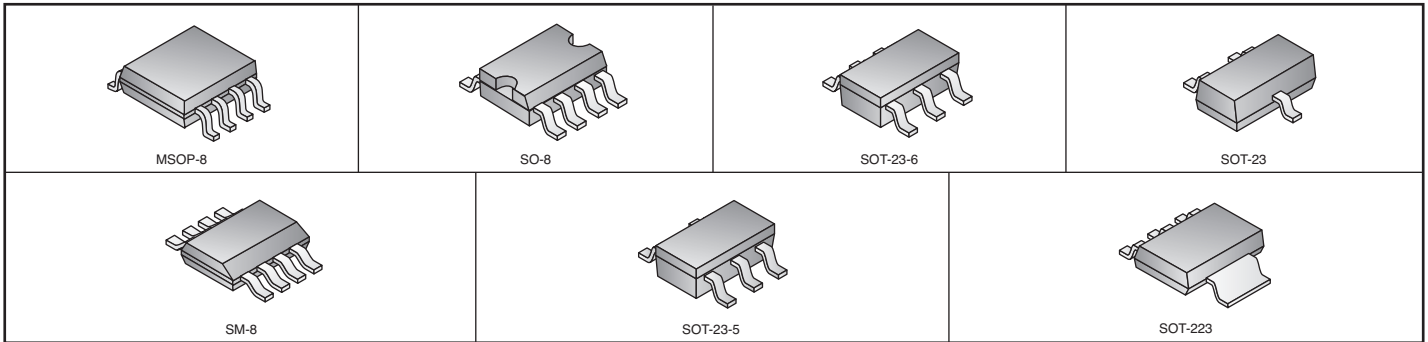
Analog ICs



A Product Line of
Diodes Incorporated



Products may be RoHS compliant.
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ZETEX GATE DRIVERS

◆ Surface Mount Device

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Zetex Part No.	Package	Vin Max (V)	Vcc Max (V)	Isource @ Vin=10mA (A)	Isink (A)	lin Max (V)	Isinkpk Max (A)	Price Each			
									1	25	100	500
◆ 522-ZXGD3001E6TA	ZXGD3001E6TA	SOT-23-6	12	12	4.2	2.2	1	9	1.08	.80	.56	.38
◆ 522-ZXGD3002E6TA	ZXGD3002E6TA	SOT-23-6	20	20	2.2	2	1	9	1.20	.80	.56	.38
◆ 522-ZXGD3003E6TA	ZXGD3003E6TA	SOT-23-6	40	40	1.6	1.4	1	5	.84	.62	.43	.29
◆ 522-ZXGD3004E6TA	ZXGD3004E6TA	SOT-23-6	40	40	1.9	1.9	1	8	1.08	.80	.56	.38
◆ 522-ZXGD3101T8	ZXGD3101T8TA	SM-8	15	15	3	3	-	-	4.15	3.08	2.16	1.46

ZETEX SINGLE AND MULTI-CELL SYSTEM POWER BOOST CONVERTERS

The ZXSC100/410/420 are voltage mode inductive boost converters aimed at providing system voltages from battery supplies. The ZXSC410/420 provide any regulated voltage above Vin from dual cell and Li-Ion cells with a typical line regulation of 1%. The ZXSC420 option provides an 'End of regulation' flag which uses all available battery energy before signaling a shutdown. The ZXSC100 caters for single cell operation with a guaranteed start up under full load conditions down to 1V. All products feature programmable peak current to optimize efficiency and supply requirements. Maximum output voltages are limited only by the rating of the external switching device.

Features:

- High efficiency: 80%+
- Typical 1% load and line regulation - ZXSC410/420
- Low shutdown current
- End of regulation flag - ZXSC420
- Single cell operation - ZXSC100
- Up to 2W output power

Applications:

- System supplies from dual cell and Li-Ion cells
- LCD bias voltage supplies
- System supplies from single Alkaline, NiCd or NiMH cells - ZXSC100
- System supplies from solar cells - ZXSC100
- Varactor and PIN diode bias

◆ Surface Mount Device

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Zetex Part No.	Package	Input Voltage Range (V)	Output Voltage Range (V)	Line Regulation (%/V)	Typical Quiescent Curr. (µA)	Efficiency (%) VOUT = 3.0V IOUT = 50mA	Typical Output Toler. (%)	Price Each			
									1	25	100	250
◆ 522-ZXSC100X8TA	ZXSC100X8TA	MSOP-8	0.93-3.5	Vin to Vm	7	150	82	4	1.97	1.90	1.83	1.76
◆ 522-ZXSC100N8TA	ZXSC100N8TA	SO-8	0.93-3.5	Vin to Vm	7	150	82	4	2.37	2.07	1.84	1.50
◆ 522-ZXSC410E6TA	ZXSC410E6TA	SOT-23-6	1.8-8.0	Vin to Vm	0.5	150	85	1	1.32	1.15	1.02	.898
◆ 522-ZXSC420E6TA	ZXSC420E6TA	SOT-23-6	1.8-8.0	Vin to Vm	0.5	150	85	1	1.32	1.15	1.02	.898

ZETEX ZXCT SERIES - CURRENT MONITORS

The ZXCT range of high-side current monitors and current sense amplifiers provide elegant design solutions for current measurement and power control. The ZXCT1009 current sensing monitor takes a high-side voltage developed across a current shunt resistor and, acting as a current mirror, translates it into a scaled ground referenced voltage. The ZXCT1010 offers reduced typical offset and improved accuracy at low sense voltages. The ZXCT1021/1022 current sense amplifiers are particularly suited to low sense voltage applications. The ZXCT1030 includes a 1.2V bandgap reference and comparator.

Features:

- High-side current sensing
- Output voltage scaling
- Up to 2.5V sense voltage
- 2.5-20V supply range
- 1% typical accuracy

Applications:

- Battery chargers
- Smart battery packs
- DC motor control
- Over current monitor
- Power management

◆ Surface Mount Device

* Relative to IOUT

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Zetex Part No.	Package	Description	VIN (V)	Accuracy @ Vsense =100mV	Typical Quiescent Curr. (µA)	Gain (Output/Vsense)	Bandwidth (MHz)	Price Each			
									1	25	100	250
◆ 522-ZXCT1008FTA	ZXCT1008FTA	SOT-23	Wide ambient temperature range	2.5 to 20*	+/-2.5%	-	10mA/V	2	.98	.70	.56	.444
◆ 522-ZXCT1009FTA	ZXCT1009FTA	SOT-23	Simple current monitor	2.5 to 20	+/-2.5%	5	User defined	2	.83	.74	.62	.502
◆ 522-ZXCT1009T8TA	ZXCT1009T8TA	SM-8	Simple current monitor	2.5 to 20	+/-2.5%	5	User defined	2	1.11	1.02	.888	.802
◆ 522-ZXCT1010E5TA	ZXCT1010E5TA	SOT-23-5	Enhanced offset	2.5 to 20	+/-2.5%	4	User defined	2	1.20	1.10	.946	.756
◆ 522-ZXCT1011E5TA	ZXCT1011E5TA	SOT-23-5	Improved temperature drift	2.5 to 20*	+/-2.5%	-	10mA/V	2	1.50	1.35	.928	.722
◆ 522-ZXCT1021E5TA	ZXCT1021E5TA	SOT-23-5	For low sense voltage	2.5 to 20	+/-2%	25	10	1	1.01	.93	.813	.727
◆ 522-ZXCT1022E5TA	ZXCT1022E5TA	SOT-23-5	For low sense voltage	2.5 to 20	+/-2%	25	100	1	1.01	.93	.813	.727
◆ 522-ZXCT1030N8TA	ZXCT1030N8TA	SO-8	Enhanced function w/ internal ref. & comp.	2.5 to 20	+/-3%	270	10V/V	6	1.40	1.15	1.02	.776
◆ 522-ZXCT1051E5TA	ZXCT1051E5TA	SOT-23-5	Precision, wide input range	2.7 to 20	+/-2%	-	10	1	1.33	1.14	1.04	.95
◆ 522-ZXCT1080E5TA	ZXCT1080E5TA	SOT-23-5	High voltage, high-side current	3 to 60	+/-3%	30	10	0.5	1.66	.95	.89	.827
◆ 522-ZXCT1081E5TA	ZXCT1081E5TA	SOT-23-5	High volume, high-side current	3.0 to 40	+/-3%	30	10	1.5	1.15	1.05	.92	.823

ZETEX RESET LOW MONITORS

These devices are three terminal voltage monitoring circuits used in microprocessor systems. They provide a 'power on reset' function and produce a system reset 'low' on power fail. A selection of reset thresholds are available. All devices are designed to operate over the temperature range -40°C to 85°C.

Features:

- Automatic reset generation
- Guaranteed operation from 1V
- High output current

Applications:

- Microprocessor systems
- Computers and computer peripherals
- Automotive
- Battery powered equipment

◆ Surface Mount Device

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MOUSER STOCK NO.	Zetex Part No.	Package	Typical Vcc (V)	Threshold Voltage (V)	Typical Hysteresis (mV)	Max Output Sink Current (mA)	Input Voltage Range (V)	Max Quiescent Curr. (µA)	Price Each			
									1	25	100	250
◆ 522-ZSM560GTA	ZSM560GTA	SOT-223	5	4.6	20	60	1 to 6.5	200	1.67	1.51	1.03	.806



RoHS Compliant

ZETEX BOOST CONVERTER FOR CAMERA PHOTOFLASH APPLICATIONS

The ZXSC440 is a dedicated photoflash charger, charging an 80µF photoflash capacitor to 300V in 3.5 seconds from a 3V supply. The flyback conversion efficiency is typically 75%, much higher than the commonly used discrete charging circuits. The Charge pin enables the circuit to be initiated from the camera's microprocessor, using negligible current when flash is not being used. The Ready pin signals the microprocessor when the flash is charged and ready to be fired. A small amount of hysteresis on the voltage feedback shuts down the device as long as the capacitor remains fully charged, again using negligible current.

Features:

- Charges a 80µF photoflash capacitor to 300V in 3.5 seconds from 3V
- Charges various value photoflash capacitors
- Over 75% flyback efficiency
- Charge and Ready pins
- Consumes only 4.5µA when not charging
- Small MSOP8 low profile package

Applications:

- Digital camera flash unit
- Film camera flash unit



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MOUSER STOCK NO.	Zetex Part No.	Package	Typical Vcc (V)	Threshold Voltage (V)	Typical Hysteresis (mV)	Max Output Sink Current (mA)	Input Voltage Range (V)	Max Quiescent Curr. (µA)	Price Each			
									1	25	100	250
◆ 522-ZXSC440X8TA	ZXSC440X8TA	MSOP-8	1.8-8.0	Vin to Vm	0.5	150	85	1	1.25	1.12	1.00	.875