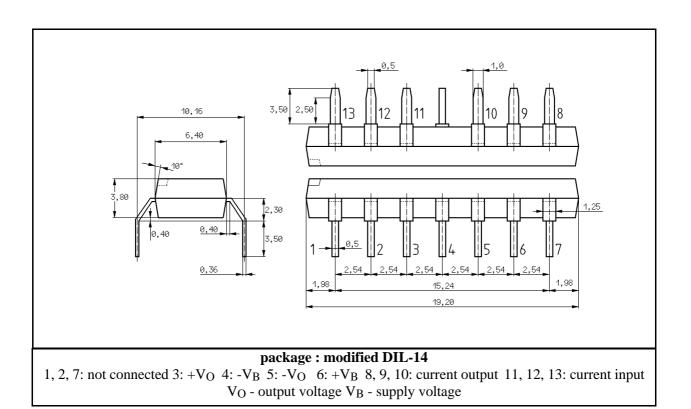
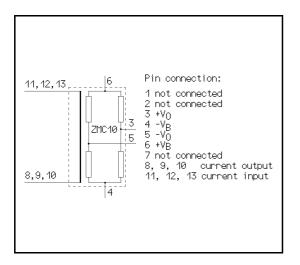


ZMC10

Current Sensor

Issue 2 - July 2006





FEATURES

- Package : mod. DIL-14
- A magnetic sensor chip (employing the magnetoresistive effect of thin film permalloy) measures the magnetic field generated by an internal currentcarrying conductor
- \bullet measurable direct or alternating current I_M up to 10A
- supply voltage 12 V
- no auxiliary field H_X required
- it's possible to overload the conductor (between pin's 8,9,10 and 11,12,13) with 300A for 10 ms at $T_{amb} = 25 \ ^{\circ}C$

ZMC 10

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol		Unit
Supply voltage	VB	12	V
Isolation voltage	VISOL	2	kV
Measurable current	IM	10	А
Operating temperature range	T _{amb}	-40 to +120	°C
Storage temperature range	T _{stg}	-65 to +120	°C

ELECTRICAL CHARACTERISTICS (at T_{amb} = 25 °C unless otherwise stated)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test conditions
Bridge resistance	R _{br}	1.2	1.7	2.2	kΩ	
Offset voltage	Voff	-	-	±2	mV/V	
Open circuit sensitivity	S	-	0.5	-	(mV/V)/A	
Resistance of the conductor	R	-	0.7	-	mΩ	
Operating frequency	f _{max}	-	-	100	kHz	
Temperature coefficient of open circuit sensitivity	T _C	-	-	-0.3	%/K	

Devices are identified by type on the body of the device

ZMC10 ZMC10

Ordering information:

ZMC10 in boxes (10 components per box)

Europe	Americas	Asia Pacific	Corporate Headquarters Zetex Semiconductors plc Zetex Technology Park, Chaddertor Oldham, OL9 9LL United Kingdom	
Zetex GmbH Streitfeldstraße 19 D-81673 München Germany	Zetex Inc 700 Veterans Memorial Highway Hauppauge, NY 11788 USA	Zetex (Asia Ltd) 3701-04 Metroplaza Tower 1 Hing Fong Road, Kwai Fong Hong Kong		
Telefon: (49) 89 45 49 49 0 Fax: (49) 89 45 49 49 49 europe.sales@zetex.com	Telephone: (1) 631 360 2222 Fax: (1) 631 360 8222 usa.sales@zetex.com	Telephone: (852) 26100 611 Fax: (852) 24250 494 asia.sales@zetex.com	Telephone: (44) 161 622 4444 Fax: (44) 161 622 4446 hq@zetex.com	

For international sales offices visit www.zetex.com/offices

Zetex products are distributed worldwide. For details, see www.zetex.com/salesnetwork

This publication is issued to provide outline information only which (unless agreed by the company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contact or be regarded as a representation relating to the products or services concerned. The company reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service.

Issue 2 - July 2006

© Zetex Semiconductors plc 2006

www.zetex.com