

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





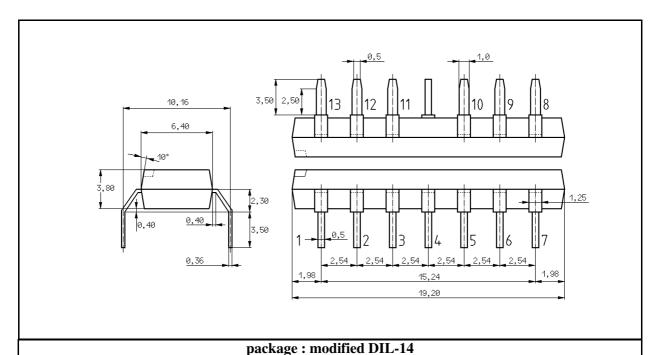




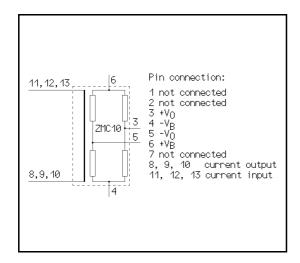
Current Sensor

Issue 2 - July 2006

ZMC10



1, 2, 7: not connected 3: $+V_O$ 4: $-V_B$ 5: $-V_O$ 6: $+V_B$ 8, 9, 10: current output 11, 12, 13: current input V_O - output voltage V_B - supply voltage



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 Hx required
- it's possible to overload the conductor (between pin's 8,9,10 and 11,12,13) with 300A for 10 ms at $T_{amb} = 25 \, ^{\circ}C$

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol		Unit
Supply voltage	$V_{\rm B}$	12	V
Isolation voltage	V _{ISOL}	2	kV
Measurable current	I _M	10	A
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	$k\Omega$	
Offset voltage	V _{Off}	-	-	±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	TC	-	-	-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)

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

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