

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!



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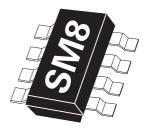




CURRENT SENSOR

DESCRIPTION

The ZMC05 allows the measurement direct or alternating current up to 5A. It consists of a magnetic sensor chip (employing the magneto resistive effect of thin Permalloy), which measures the magnetic field generated by an internal-carrying conductor.



FEATURES

- Package: SM-8
- Supply voltage 12 V
- No Auxiliary Field Required
- Measurable current IM up to 5A
- Available on 12mm tape

APPLICATION

- Contactless and free from losses current measurement
- Automotive
- Battery Power Equipment
- Power Supplies
- Electric Motor Control
- Power Management

ORDERING INFORMATION

DEVICE	REEL SIZE	TAPE WIDTH	QUANTITY PER REEL
ZMC05TA	7″	12mm	1000
ZMC05TC	13"	12mm	4000

DEVICE MARKING

ZMC05

PINOUT DIAGRAM

1111001 21710	3117 (111	
1	8	
2	7	
3	6	
4	5	

PIN CONNECTION

1) Do not connect

5) -VO

2) +VO

6) Current input

3) Current output

7) +VB

4) -VB

8) Do not connection



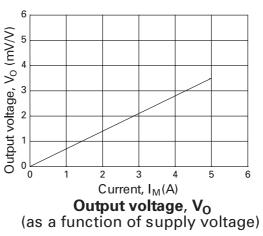
ZMC05

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	LIMIT	UNIT
Supply Voltage	VB	12	V
Measurable current at DC: absolute value at AC: peak value	IM	5	A
Operating temperature range	T _{amb}	-25 to +125	°C
Storage temperature range	T _{stg}	-25 to +125	°C

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated)

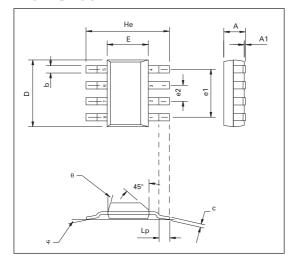
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Input - Output - Insulation (pins 3,6 shorted together & pins 2,4,5,7 shorted together)	II-O			100	nA	test voltage:200V DC test time: 50ms
Bridge resistance	R _{br}	1.2	1.7	2.2	kΩ	
Offset voltage	VOff			±2	mV/V	
Open circuit sensitivity	S	0.5	0.7	0.9	(mV/V)/A	
Resistance of the conductor	R		0.7		mΩ	
Operating frequency	f _{max}			100	kHz	





ZMC05

PACKAGE OUTLINE



PACKAGE DIMENSIONS

DIM	MILLIMETRES		
DIIVI	MIN	MAX	
Α	_	1.7	
A1	0.02	0.1	
b	0.7 TYP		
С	0.24	0.32	
D	6.3	6.7	
Е	3.3	3.7	
e1	4.59 TYP		
e2	1.53 TYP		
He	6.7	7.3	
Lp	0.9	_	
θ	— 15°		
φ	10° TYP		

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