

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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Hall Effect Current Sensor S29S1T0D24ZM

Features:

- Closed Loop type
- Current or voltage output
- Conversion ratio K = 1:5000
- Panel mounting with Molex 6410-03C. •
- Large aperture
- Insulated plastic case according to

Advantages:

- Excellent accuracy and linearity
- Very low temperature drift
- No insertion loss
- High Immunity to external interferences
- Optimised response time
- Wide supply voltage range

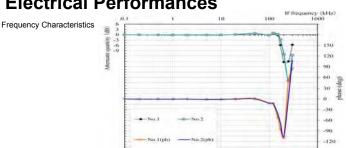
Specifications

 $T_A=25$ °C, $V_{CC}=\pm24$ V

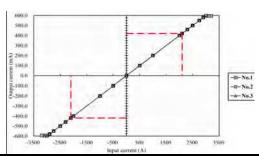
Parameters	Symbol	S29S1T0D24ZM		
Rated Current	I _f	1000A		
Maximum Current	I _{fmax}	± 2100A (see below)		
If = ± A _{DC} Measuring resistance @ 85°C		±15V	70°C	1000A : $0\Omega \sim 21\Omega$ 1200A : $0\Omega \sim 9\Omega$ 1300A : $0\Omega \sim 5\Omega$
			85°C	1000A : $0\Omega \sim 18\Omega$ 1200A : $0\Omega \sim 7\Omega$
	R _M	±24V	70°C	1000A : $0\Omega \sim 60.5\Omega$ 1800A : $0\Omega \sim 14\Omega$ 2100A : $0\Omega \sim 4\Omega$
			85°C	1000A : 10Ω ~ 58.5Ω 1800A : 10Ω ~ 12Ω
Conversion Ratio	K	1 : 5000		
Output Current	I _{OUT}	± 200mA		
Offset Current	I _{OE}	$\leq \pm 0.4 \text{mA} \otimes I_f = 0 \text{A}^1$		
Output Current Accuracy	Х	I _{OUT} ± 0.4% (without lo _f)		
Output Linearity	ε _L	≤ ± 0.1% @ I _f		
Supply Voltage	V _{cc}	± 15V ~ ± 24V (±5%)		
Consumption Current	Icc	± 35mA (Output Current is not included)		
Response Time ²	t _r	< 1.0μs @ di/dt = 100A / μs		
Output Temperature Characteristic	TCI _{OUT}	< ± 0.01 % / °C @ I _f (without TCIoE)		
Offset Temperature Characteristic	TCI _{OE}	≤± 0.8mA max @ I _f = 0A		
Hysteresis allowance	I _{OH}	\leq 0.2mA (0A \Leftrightarrow 3 x I_f)		
Insulation Withstanding	V _d	AC 4000V, for 1minute (sensing current 0.5mA), inside of aperture ⇔ terminals		
Insulation Resistance	R _{IS}	> 500MΩ (@ DC 500V) inside of aperture ⇔ terminals		
Frequency Bandwidth	f	DC 100 kHz		
Secondary Coil Resistance	Rs	48Ω @ T _A = 70°C 50Ω @ T _A = 85°C		
Operating Temperature	T _A	− 40°C ~ +85°C		
Storage Temperature	Ts	− 40°C ~ +90°C		

Offset current value is after removal of core hysteresis — ² Time between 90% input current full scale and 90% of sensor output full scale

Electrical Performances



Saturation Characteristics







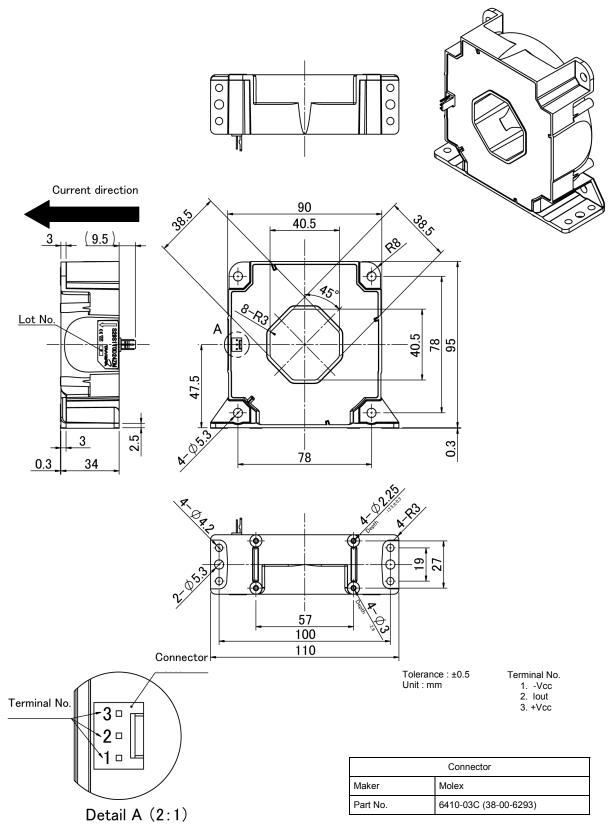






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Mechanical dimensions in mm







Plating of terminal : Sn



