mail

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

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Hall Effect Current Sensor S29S1T0D24ZJ

Features:

- Closed Loop type
- Current or voltage output
- Conversion ratio K = 1:5000
- Panel mounting with JST : BH3P-VH-1.
- Large aperture
- Insulated plastic case according to • UL94V0

Advantages:

- Excellent accuracy and linearity •
- Very low temperature drift •
- No insertion loss
- High Immunity to external interferences •

 $T_A=25^{\circ}C, V_{CC}=\pm24V$

- Optimised response time
- Wide supply voltage range •

Specifications

Symbol	S29S1T0D24ZJ		
l _f	1000A		
I _{fmax}	± 2100A (see below)		
R _M	±15V	70°C	1000A : 0Ω ~ 21Ω 1200A : 0Ω ~ 9Ω 1300A : 0Ω ~ 5Ω
		85°C	1000A : 0Ω ~ 18Ω 1200A : 0Ω ~ 7Ω
	±24V	70°C	1000A : 0Ω ~ 60.5Ω 1800A : 0Ω ~ 14Ω 2100A : 0Ω ~ 4Ω
		85°C	1000A : 10Ω ~ 58.5Ω 1800A : 10Ω ~ 12Ω
К	1 : 5000		
I _{OUT}	± 200mA		
I _{OE}	$\leq \pm 0.4$ mA @ I _f = 0A ¹		
X	I _{OUT} ± 0.4% (without lor)		
ε	$\leq \pm 0.1\%$ @ I _f		
Vcc	± 15V ~ ± 24V (±5%)		
Icc	± 35mA (Output Current is not included)		
tr	< 1.0µs @ di/dt = 100A / µs		
TCI _{OUT}	< ± 0.01 % / °C @ I _f (without TCIOE)		
TCI _{OE}	≤± 0.8mA max @ I _f = 0A		
I _{он}	≤ 0.2 mA (0A \Leftrightarrow 3 x I _f)		
V _d	AC 4000V, for 1minute (sensing current 0.5mA), inside of aperture \Leftrightarrow terminals		
R _{IS}	> 500M Ω (@ DC 500V) inside of aperture \Leftrightarrow terminals		
f	DC 100 kHz		
Rs	48Ω @ $T_A = 70^{\circ}C$ 50Ω @ $T_A = 85^{\circ}C$		
TA	– 40°C ~ +85°C		
Ts	– 40°C ~ +90°C		
	Symbol I _f I _{fmax} R _M R _M K Iour IoE X E C Vcc Icc Icc Icc Icc Icc Icc Icc	SymbolIfIfIfmax I_{fmax} $\pm 15 \vee$ R_M $\pm 15 \vee$ R_M $\pm 24 \vee$ KIoutIoeX E_L VccIccIccIccIccIccIccInterpretationTCloutTCloeIoHVdAC 40RisfRsTATs	SymbolIrIf a second sec

Electrical Performances





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Hall Effect Current Sensor S29S1T0D24ZJ

Mechanical dimensions in mm





Tamura reserve the right to modify its products in order to improve them without prior notice

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