



DATA SHEET

Hall Effect Current Sensor

PN: CHK_BSR5S6

IPN=50-600A

Feature

- Open- loop
- Capable measurement of currents: DC, AC,pulse with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC +5.0V

Advantages

- Easy installation
- No insertion losses
- Low power consumption
- Wide current measuring range
- High immunity to external interference

Applications

- Inverter applications
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Frequency drive control home appliances

- Can be customized



RoHS



Electrical data: (Ta=25°C±5°C, Vc=+5.0VDC, RL=2KΩ, CL=10000PF)

Ref Parameter	CHK50 BSR5S6	CHK100 BSR5S6	CHK200 BSR5S6	CHK300 BSR5S6	CHK400 BSR5S6	CHK500 BSR5S6	CHK600 BSR5S6
Rated input I _p (A)	50	100	200	300	400	500	600
Measuring range I _p (A)	0~±150	0~±300	0~±600	0~±900	0~±900	0~±900	0~±900
Rated output V _o (V)	@I _p =±I _p n						

REV: A2

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General data:	
Parameter	Value
Operating temperature Ta(℃)	-40 ~ +85
Storage temperature Ts(℃)	-40~ +125
Mass M(g)	65
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):

PINS	
1	+5V
2	GND
3	OUT
4	VR

Remarks:
1. All dimensions are in mm.
2. General tolerance ±1mm.



Characteristics chart:

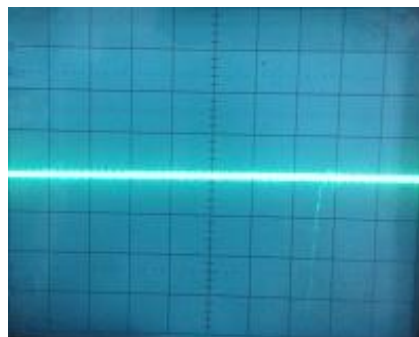
Pulse current signal response characteristic



← Input signal

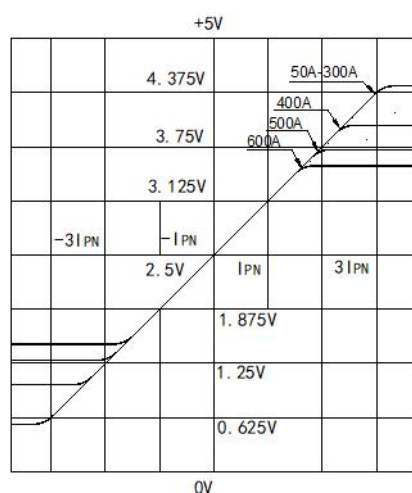
← Output signal

Effects of impulse noise



← Output voltage

Input current-Output Voltage characteristic



Remarks:

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.
- The dynamic performance is the best when the primary hole is fully filled with.
- The primary conductor should be $<100^{\circ}\text{C}$.

WARNING : Incorrect wiring may cause damage to the sensor.

