

PN : BJHCS-LSP

IPN = 20A - 25A

Features

- Closed loop
- High accuracy
- Very good linearity
- Low power consumption
- Good over-current capability
- Supply voltage : +5 V DC
- Voltage output
- Small PCB mounting
- Can be customized

Applications

- Frequency drive control home appliances
- Solar power management system
- Inverter applications
- Uninterruptible power supplies (UPS)
- Current monitoring



ELECTRICAL DATA

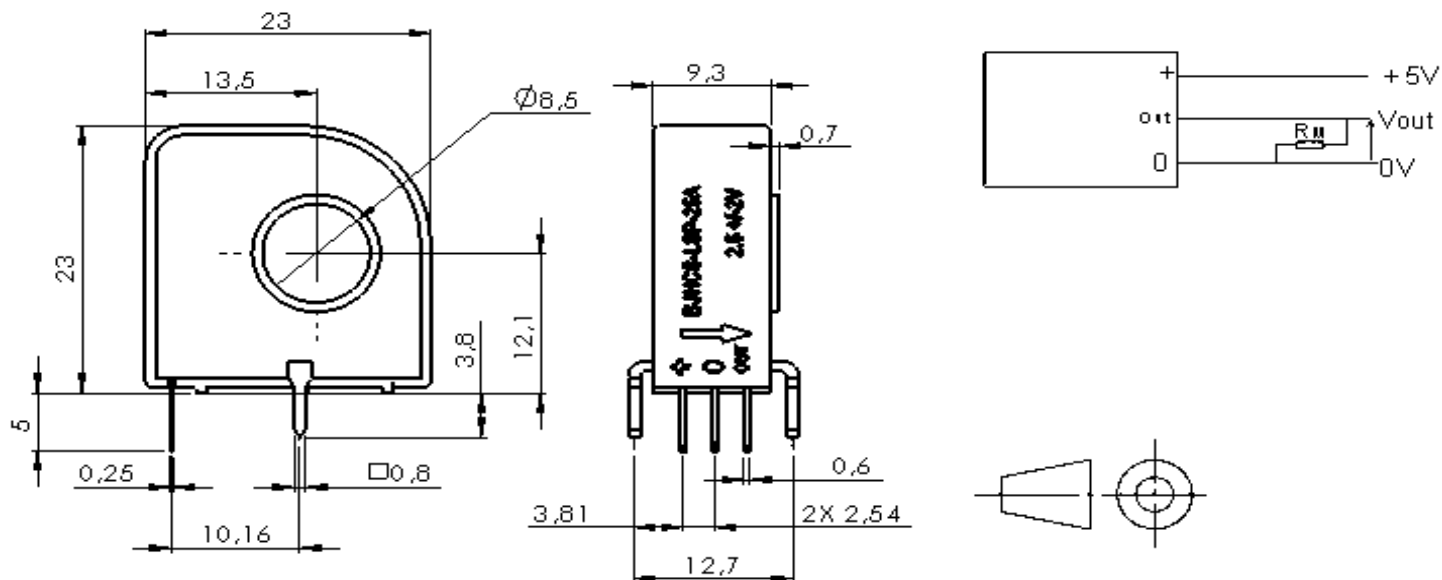
BJHVS-LSP-...	20	25
Maximum current I_P (A)	20	25
Measuring range I_{PM} (A)	± 20	± 25
Sampling resistor (Ω)	50	100
Secondary coil turns (T_S)	1000	1250
Rated output voltage V_O (V)	$V_{OE} \pm (I_P/I_{PN}) * 2$	
Supply voltage V_C (Vdc)	$+5 \pm 5\%$	

ACCURACY DYNAMIC PERFORMANCE

GENERAL & ISOLATION CHARACTERISTICS

Zero offset voltage V_{OE} @ $I_P=0$, $T=25^\circ\text{C}$	$2,5^{\pm 0,015}$	V	Operating temperature	-40 to +85	$^\circ\text{C}$
Offset voltage drift @ -40 $^\circ\text{C}$ to 85 $^\circ\text{C}$	$\leq \pm 0,5$	mV/ $^\circ\text{C}$	Storage temperature	-40 to +126	$^\circ\text{C}$
Accuracy	$\pm 0,7$	%	Weight	10	g
Linearity error ϵ_L	$\leq 0,1$	% FS	Insulation voltage (50 Hz, 1min)	3	KV
di/dt accurately followed	> 50	A/ μs	Impulse withstand voltage (1,2/50 μs)	> 8	KV
Response time t_r	≤ 1	μs	Creepage distance (shell)	15,4	mm
Bandwidth (-1db)	DC to 200	kHz			

DIMENSIONS



MECHANICAL CHARACTERISTICS

General tolerance	$\pm 0,5$ mm
Through hole dimension	$\varnothing 8,5$ mm
Fixed tube feet	0,8 mm x 0,9 mm
Terminal connection	3 pins 0,25 mm x 0,5 mm

Cautions :

- I_S is positive when I_P flows in accordance with the arrow direction (see the side of the sensor);
- Primary conductor temperature should not exceed 100 °C;
- Best dynamic performances (di/dt and response time) are achieved with a single electrical conductor completely filling the through hole;
- For the required connection circuit, see the drawing above.

WARNING : Incorrect wiring may cause damage to the sensor.