

## HC-SN



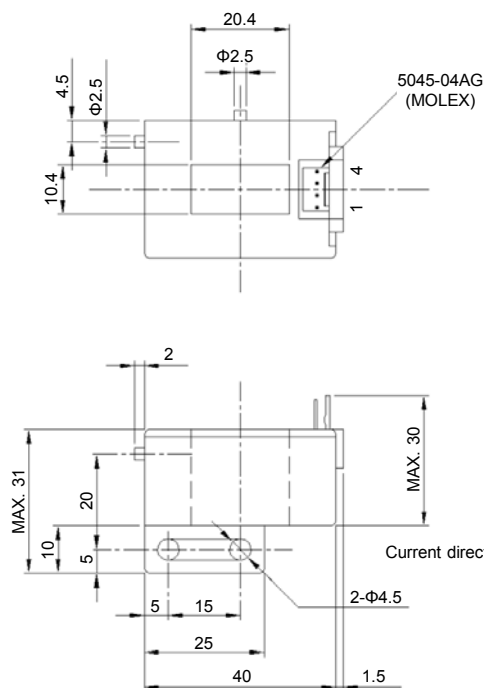
- Rated current 50A ~ 800A
- Superior noise-resistance
- Single-power supplies also available

### Applications

Inverters, Servo drivers, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

## Dimensions

(mm)



Supported connector housing  
5051-04 (MOLEX)

Terminal No. 1 - (+) terminal  
2 - (-) terminal  
3 - Output  
4 - GND

Weight : 46g

General tolerance:  $\pm 0.5$

### Specification

Ta=25°C

Type	HC-SN050V4B15	HC-SN100V4B15	HC-SN300V4B15	HC-SN600V4B15	HC-SN800V4B15
Rated current [ If ]	± 50A	± 100A	± 300A	± 600A	± 800A
Saturation current [ Is ]	± 150A	± 300A	± 700A	± 1000A	± 1000A
Linearity limits	0~± 150A	0~± 300A	0~± 450A	0~± 900A	0~± 900A
Rated output [ Vh ]	±4V±1.5% (RL=10kΩ)	±4V±1% (RL=10kΩ)			
Residual output [ Vo ]	Within ±50mV	Within ±30mV			
Output linearity	Within ±1%				
Response time	Within 10μs (The smaller one on either at di/dt = 100A/μs or If/μs.)				
Response performance	Within 10%				
Hysteresis voltage range	Within 30mV				
Output Temp. Coef.	Within ±0.1%/°C				
Residual output Temp. Coef.	Within ±3mV/°C	Within ±1.5mV/°C	Within ±1mV/°C		
Control power supply	±15V±5%				
Consumption current	Within 30mA				
Operating Temp.	-10°C~+80°C				
Storage Temp.	-15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance	Not less than 500MΩ 500V DC				

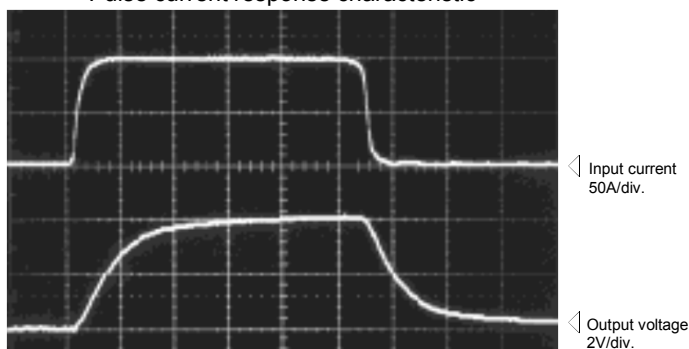
Note1) The indicated residual output is the one after the core hysteresis is removed.

### Characteristics chart

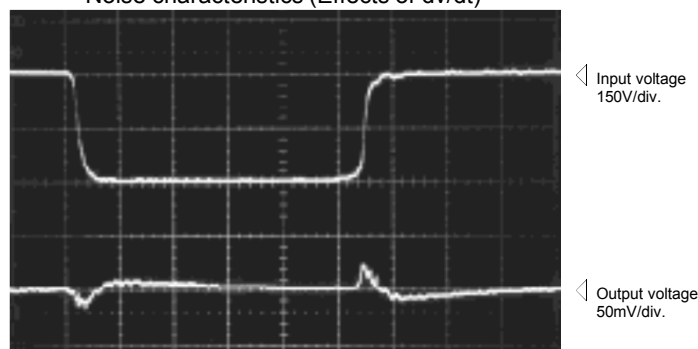
HC-SN100V4B15

Time base: 5μs/div.

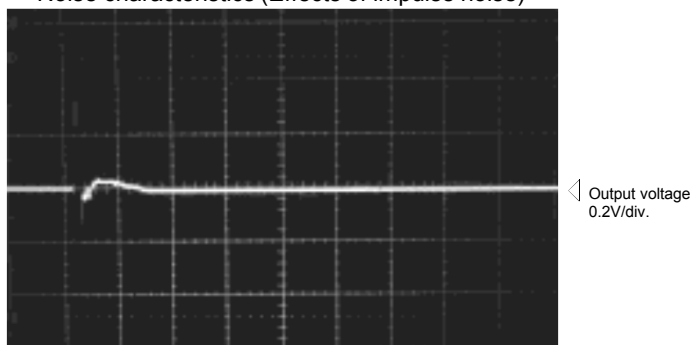
Pulse current response characteristic



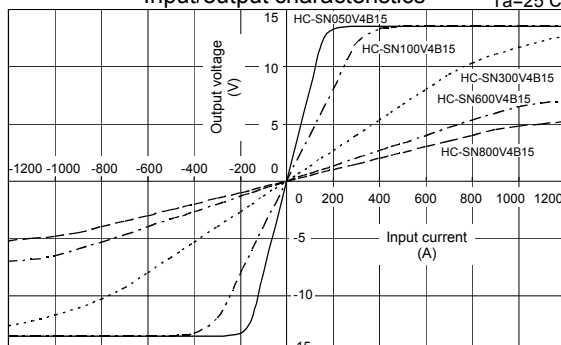
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Input/output characteristics



Note: The marks "◁" means 0V or 0A.