HF3501/ HF3508

FLASHER





Typical Applications

Turn signal & Hazard warning lamp control

Features

- Special integrate circuit, good performance
- Special high-performance contacts, ultra-long Electrical endurance
- Surface mounting technology, advanced craftwork
- Solid base design, stable structure
- Ingress protection: IP50

TYPE

| Туре | Product series name | Dimensions | Output mode |
|----------------------|------------------------------|-------------------|---------------|
| HF3501 | Automotive flasher | (30 × 30 × 40) mm | Single output |
| HF3508 ¹⁾ | Miniature automotive flasher | (30 × 30 × 30) mm | Single output |

¹⁾ The application of HF3508 series can be expanded to halogen lamp load of (21W+5W)+5W(LED).

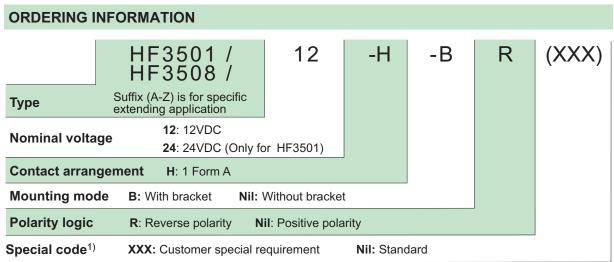
CHARACTERISTICS

| Туре | | HF3501 | HF3508 |
|------------------------------|----------------------------|----------------------------------|----------------------------------|
| Nominal voltage | | 12VDC / 24VDC | 12VDC |
| Operating voltage | 12V System | 9VDC to 16VDC | 9VDC to 16VDC |
| | 24V System | 18VDC to 32VDC | _ |
| Nominal load | Turning mode | 2×21W + 5W | 2×21W + 5W |
| | Hazard mode | 2×(2×21W + 5W) | 2×(2×21W + 5W) |
| | Lamp outage mode | 21W + 5W | 21W + 5W |
| Flash frequency | | (60 to 110)ops / min | (60 to 110)ops / min |
| Lamp failure flash frequency | | (140 to 230)ops / min | (140 to 230)ops / min |
| Electrical endurance | Turning 15s on/15s off 12V | 1000h | 1000h |
| | Hazard continuously 12V | 360h | 360h |
| | Turning 15s on/15s off 24V | 400h | _ |
| | Hazard continuously 24V | 200h | _ |
| Duty cycle | | 30% to 70% | 30% to 70% |
| Ambient temperature | | -40°C to 85°C | -40°C to 85°C |
| Vibration resistance | | 10Hz to 200Hz 49m/s ² | 10Hz to 200Hz 49m/s ² |
| Shock resistance | | 196m/s ² | 196m/s ² |
| Unit weight | | Approx.40g | Approx.30g |
| Mechanical performance | Cover retention | 160N min. | 160N min. |
| | Terminal retention | 100N min. | 100N min. |



ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2015 Rev. 1.00

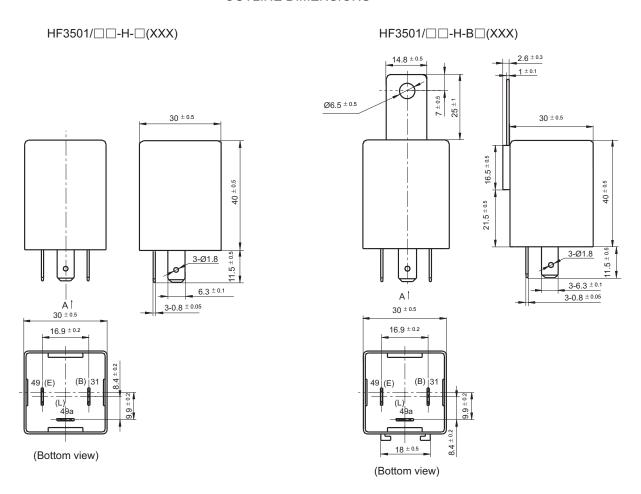


Notes: 1) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

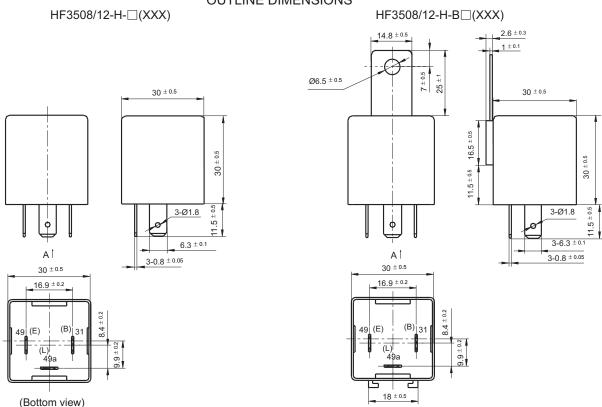
OUTLINE DIMENSIONS



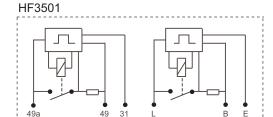
OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

OUTLINE DIMENSIONS

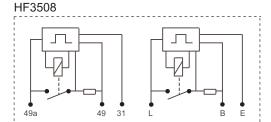


WIRING DIAGRAM



Reverse

Reverse



1) As shown in wiring diagram (combine bottom view), the terminal 49(B) is connected with positive electrode of power supply of 12V or 24V. The 31(E) terminal is connected with negative electrode of power supply, the 49a(L) is connected with lamp load. When lamp load is 2 x 21W + 5W or 4 x 21W + 2 x 5W, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When lamp load is 1 x 21W + 5W (one lamp of 21W is broken down), the flasher will control lamp to flash by frequency of (140 to 230) times per minute.

(Bottom view)

1) As shown in wiring diagram (combine bottom view), the terminal 49(B) is connected with positive electrode of power supply of 12V. The 31(E) terminal is connected with negative electrode of power supply, the 49a(L) is connected with lamp load. When lamp load is 2 x 21W + 5W or 4 x 21W + 2 x 5W, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When lamp load is 1 x 21W + 5W (one lamp of 21W is broken down), the flasher will control lamp to flash by frequency of (140 to 230) times per minute

Disclaimer

Positive

Positive

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. In case there is specific criterion (such as mission profile, technical specification, PPAP etc.) checked and agreed by and between customer and Hongfa, this specific criterion should be taken as standard regarding any requirement on Hongfa product.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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