



### FEATURES :

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- MOSFET output
- Low On-state resistance
- Input signal is compatible with TTL and CMOS
- Internal RC snubber.
- Input and output light isolated .
- LED indicating operation
- With safety cover,panel mount
- 100% tested at rating current,CE compliant .

### Application :

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HGK DC Series Solid State Relays, adapting ignition-proof engineering cover, unique sculpt, original architecture, screw thread connection with safety cover have the features of hard structure, vibration-proof capability high, input driving current small convenient to interface with terminals of computer and various digital tele-control circuit. This products are widely used in the fields of petrochemical equipment, foodstuff-producing mechanism, packaging machines, textile and plastic, mechanisms, tool numerical control, gymnasium equip. Specialities be the same with canker, aqosity request prevent explode scurvines circumstance, and often switch of occasion .

### PRECAUTIONS :

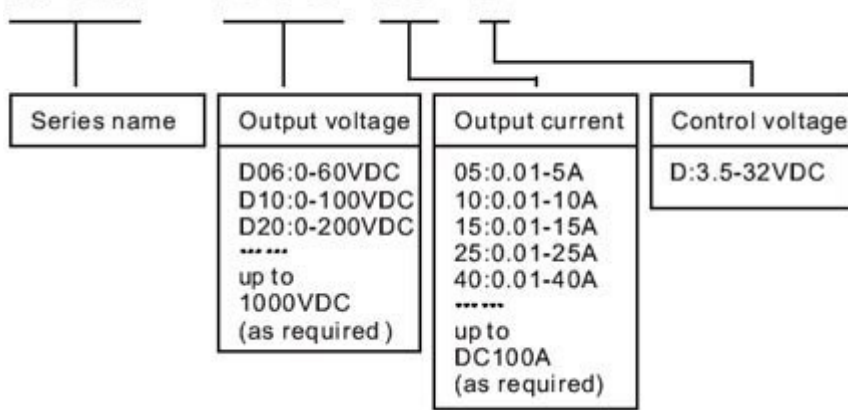
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- Heatsink should be used when the current is up to 5 Amperes, and heat-conductive silicate should be spreaded between the heatsink and the base.
- When controlling inductive load, the SSR may be damaged by the high transient voltage and surge current added on the output, so some special clamping devices to control voltage, such as zener diode, varistor(MOV).
- When controlling a small current(close to Min. Load current), a dummy load resistance should b e paralleled to reduce the rest higher voltage produced by the leakage current on the output
- To avoid the temperature exceeding the allowance, heatsink efficiency and the mounting position should be regarded, suitable space will be left when two or more SSR are mounted .
- The output end must not be used in parallel to enlarge the current, however can be used in series for higher suitable operating voltage.
- The input end can be used either mean when sharing a control power supply.
- Please contact HALON application engineering department for additional information and specific application questions.

### SELECTING CODE :

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# HGK - D06 10 D



## General parameters :

Dielectric strength	50Hz,1min 2500V input to output 4000V input,output to base
Min.insulation resistacne	1000MQ@ 500VDC
ax.Cpacitance input/output	50pF
Ambient operating temperature	30°C to 80°C
Ambient storage temperature	-40V to 125°C
Weight(typical)	65g

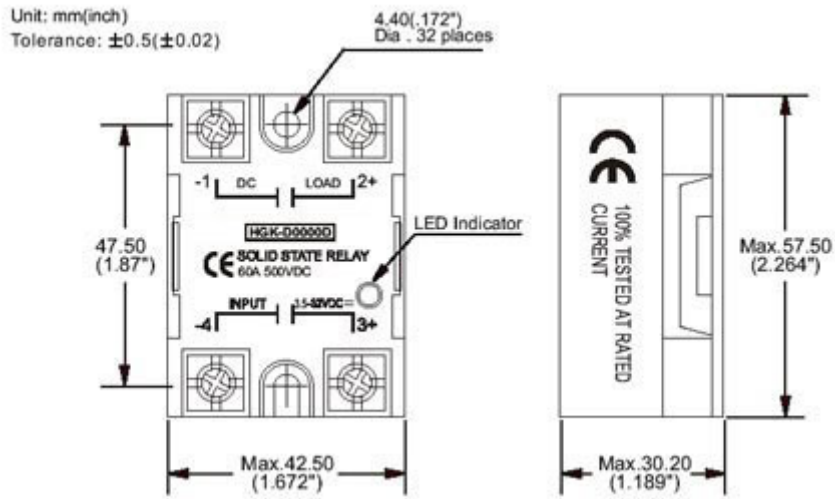
## Input parameters :

Control voltage range	3.5-362VDC
Max.turn-on voltage	3.5VDC
Min.turn- off voltage	1VDC
Typical input current	1.8mA@5VDC 29mA@32VDC

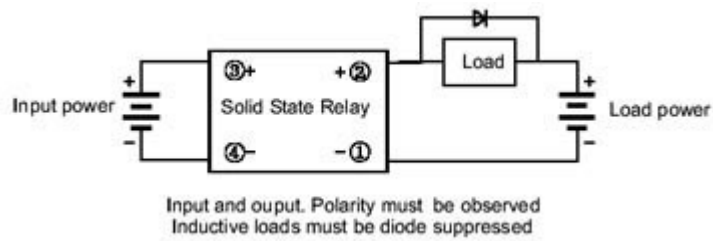
## Output parameters(T=25°C) :

Operating voltage range	0-500VDC
Max.load current (with heatsink)	60ADC
Min.load current	20 mADC
Mac.surge current	240 ADC@10msec
Max.on-state voltage drop@rated current	0.038Ohms
Thermal resistance junction to case	0.56°C/w
Off-state leakage current@rated voltage	0.3 mA
Turn ontime	100 usec
Turn off time	1.0 msec

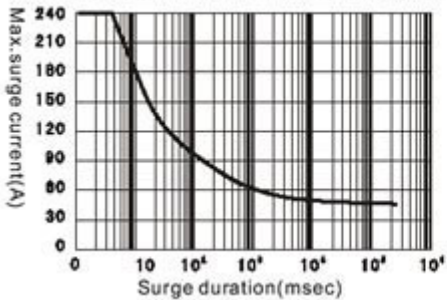
## Dimensions :



**CONNECTION :**



**MAXIMUM SURGE vs. DURATION**



**CURRENT DERATING CURVE**

