

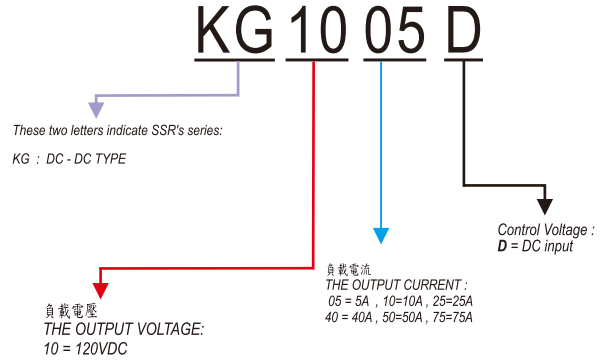
# 固態繼電器 SOLID STATE RELAY

**KG1005D    KG1040D**  
**KG1010D    KG1050D**  
**KG1025D    KG1075D**  
**KG1090D**

## KG10 (DC-DC) SERIES



## 型號索引說明 Model No. Descriptions:



## 產品摘錄 PRODUCT SELECTON

### 輸出規格 OUTPUT SPECIFICATIONS

| 品名       | Description                                            | KG1005D  | KG1010D  | KG1025D  | KG1040D  | KG1050D  | KG1075D  | KG1090D  |
|----------|--------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| 負載電壓範圍   | Operating Voltage [VDC]                                | 5-120VDC | 5-120VDC | 5-120VDC | 5-120VDC | 5-120VDC | 5-120VDC | 5-120VDC |
| 最大負載電流   | Maximum Load Current [A]                               | 5A       | 10A      | 25A      | 40A      | 50A      | 75A      | 90A      |
| 破壞電壓     | Maximum Transient Overvoltage [Vpk]                    | 200      | 200      | 200      | 200      | 200      | 200      | 200      |
| 洩漏電流     | Maximum Off-State Leakage Current @Rated Voltage [mA]  | Less 3mA | Less 3mA | Less 3mA | Less 3mA | Less 3mA | Less 3mA | Less 3mA |
| 最大瞬間承受電流 | Maximum Surge Current [A] (10ms)                       | 15A      | 25A      | 43A      | 52A      | 75A      | 96A      | 120A     |
| 動作壓降     | Maximum On-State Voltage Drop @ Rated Current [VDCrms] | 1.5      | 1.5      | 1.5      | 1.5      | 1.5      | 1.5      | 1.5      |
| 瞬間電壓變化率  | Maximum Off-State dv/dt [V/usEC]                       | 100      | 100      | 100      | 100      | 100      | 100      | 100      |

### 輸入規格 INPUT SPECIFICATIONS

| 品名     | Description                  | KG1005D     | KG1010D     | KG1025D     | KG1040D     | KG1050D     | KG1075D     | KG1090D     |
|--------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 控制電壓範圍 | Control Voltage Range        | 3-32VDC     | 3-32VDC     | 4-32VDC     | 4-32VDC     | 4-32VDC     | 4-32VDC     | 4-32VDC     |
| 最小導通電壓 | Minimum Turn-on Voltage      | 3.0         | 3.0         | 3.0         | 3.0         | 3.0         | 3.0         | 3.0         |
| 最大關斷電壓 | Maximum Turn-off Voltage     | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         | 1.0         |
| 輸入電流   | Typical Input Current        | 15mA        | 15mA        | 15mA        | 15mA        | 15mA        | 15mA        | 15mA        |
| 最大動作時間 | Maximum Turn-on Time [mSec]  | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec |
| 最大關斷時間 | Maximum Turn-off Time [mSec] | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec | Less 2m Sec |

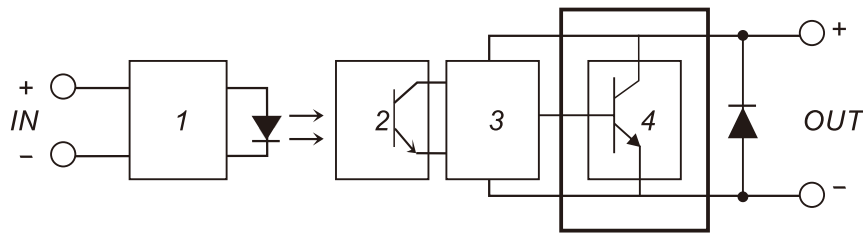
### 一般規格 GENERAL SPECIFICATIONS

| 品名           | Description                             | KG1005D             | KG1010D             | KG1025D             | KG1040D             | KG1050D             | KG1075D             | KG1090D             |
|--------------|-----------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 輸入/輸出至外殼絕緣電壓 | Dielectric Strength , Input-Output Base | 2500                | 2500                | 2500                | 2500                | 2500                | 2500                | 2500                |
| 輸入/輸出絕緣電壓    | Dielectric Strength , Input-Output      | 2500                | 2500                | 2500                | 2500                | 2500                | 2500                | 2500                |
| 絕緣電阻         | Minimum Insulation Resistance           | 10 <sup>5</sup> ohm | 10 <sup>5</sup> ohm | 10 <sup>5</sup> ohm | 10 <sup>5</sup> ohm | 10 <sup>5</sup> ohm | 10 <sup>5</sup> ohm | 10 <sup>5</sup> ohm |
| 輸入-輸出容抗      | Maximum Capacitance , Input-Output      | Less 15pf           | Less 15pf           | Less 15pf           | Less 15pf           | Less 15pf           | Less 15pf           | Less 15pf           |
| 工作溫度範圍       | Ambient Operating Temperature Range     | -20°C~+80°C         | -20°C~+80°C         | -20°C~+80°C         | -20°C~+80°C         | -20°C~+80°C         | -20°C~+80°C         | -20°C~+80°C         |
| 儲存溫度範圍       | Ambient Storage Temperature Range       | -40°C~+100°C        | -40°C~+100°C        | -40°C~+100°C        | -40°C~+100°C        | -40°C~+100°C        | -40°C~+100°C        | -40°C~+100°C        |
| 觸發方式         | Switching Type                          | BJT                 | BJT                 | MOSFET              | MOSFET              | MOSFET              | MOSFET              | MOSFET              |
| 重量           | Weight (g)                              | 100g                | 100g                | 100g                | 100g                | 100g                | 100g                | 100g                |

### GENERAL NOTES

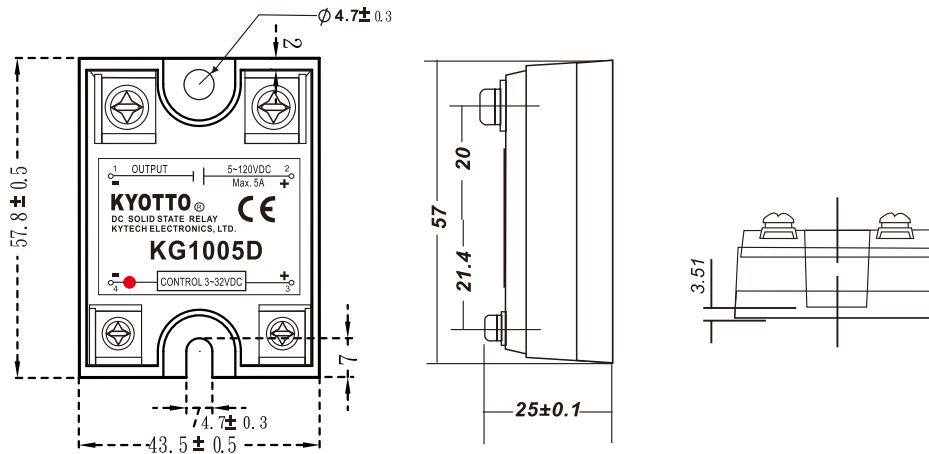
- (1) All parameters at 25°C unless otherwise specified
- (2) Dielectric strength and insulation resistance are measured between input and output
- (3) Heat sinking require ,for derating curves see next page.

## 等效電路圖 EQUIVALENT CIRCUIT

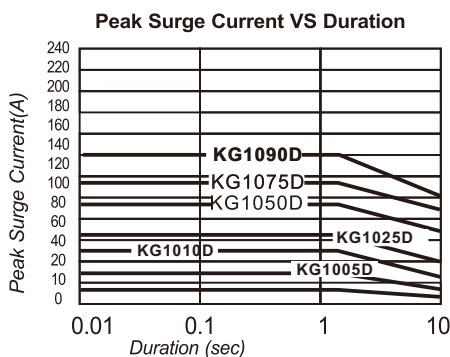
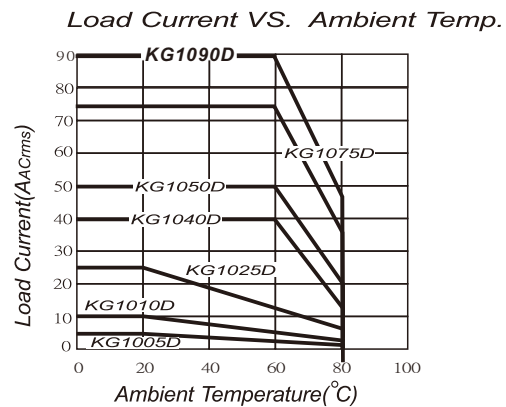
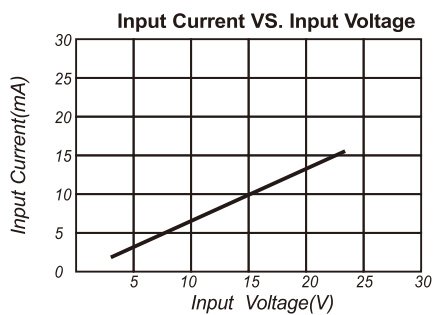


- 1.INPUT CIRCUIT
- 2.PHOTO DETECTOR
- 3.AMPLIFIER
- 4.PROTECTED CIRCUIT

## 外觀尺寸圖 MECHANICAL DIMENSIONS (Unit:mm)



## 特性曲線圖 CHARACTERISTIC CURVES



### GENERAL NOTES

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- (2) Dielectric strength and insulation resistance are measured between input and output
- (3) Heat sinking require , for derating curves see next page.