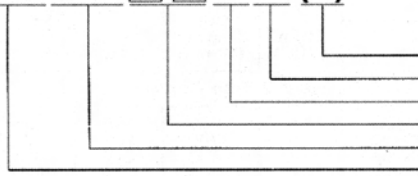


### How to order

D G 1 A 0 5 B W (D)



D : Diode (optional)  
 W : Standard X : Magnetic shield (optional on DG1A)  
 Power-B : 10W D : 50W(Mercury) N : 50W(Mercury high speed)  
 Nominal coil voltage-5V, 12V, 24V  
 Contact form-1A, 1 B  
 SH : Ultra miniature DG : Standard size

## SH • DG Series

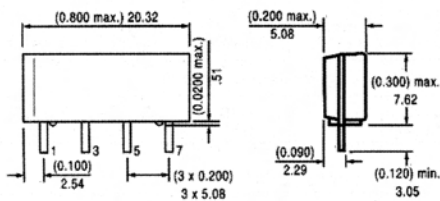
# RELAYS

### CONTACT RATINGS (resistive loads)

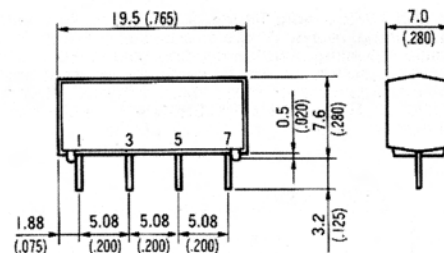
| Parameters                            | DG 1 A ** BW    | DG 1 B ** BW                      | SH 1 A ** BW (D) | DG 1 A ** NW   |
|---------------------------------------|-----------------|-----------------------------------|------------------|--|
|                                       |                 |                                   |                  | DG 1 A ** DW<br><i>(Mercury)</i>                               |
| Power (W) max.                        | 10              |                                   |                  | 50   |
| Voltage (VDC) max.                    | 200             |                                   |                  | 500  |
| Switching Current (A) max.            | 0.5             |                                   |                  | 2.0  |
| Carry Current (A) max.                | 1.0             |                                   |                  | 2.0  |
| Contact Resistance (Ω) max. (initial) | 0.15            | 0.20                              | 0.15             | 0.1  |
| Breakdown Voltage (VDC) min.          | Open Contact    | 250                               |                  | 1000   |
|                                       | Contact to Coil | 1500                              |                  | 1500   |
| Insulation Resistance (Ω) min.        | Open Contact    | 10 <sup>10</sup>                  |                  | 10 <sup>9</sup> (NW). 10 <sup>10</sup> (NW)                    |
|                                       | Contact to Coil | 10 <sup>10</sup>                  |                  | 10 <sup>10</sup>   |
| Operate Time (mS) max. (incl. bounce) | 1.0             |                                   |                  | 1.0 (NW). 2.0 (DW)   |
| Release Time (mS) max.                | 0.5             |                                   |                  | 1.0 (NW). 2.0 (DW)   |
| Electrical life                       | Low Level       | 10 <sup>8</sup> (10mVDC, 10μA)    |                  | 10 <sup>8</sup> (10VDC, 4mA)                                   |
|                                       | Rated Load      | 6 X 10 <sup>5</sup> (20VDC, 0.5A) |                  | 10 <sup>6</sup> (20VDC, 0.5A)<br>10 <sup>5</sup> (50VDC, 1.0A) |

### DIMENSIONS Unit : mm (inch)

#### SH Series



#### DG Series



\* Lead 0.5 x 0.25 (.020 x .010)