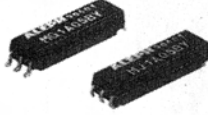
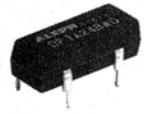


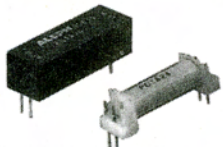
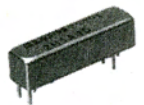
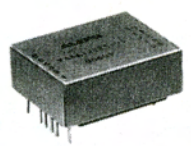
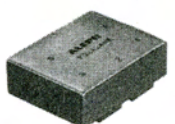
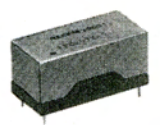
Reed Relay Selection

Type/Part Number L x W x H (mm)	Contact Form	Nominal Coil Voltage (VDC)	Contact Power (W)	Switching Voltage (VDC) max.	Switching Current (A) max.	Features
Surface Mount/M-L-W series  18 x 5 x 4.5	1A 1B 1C	5, 12	10	150	0.5	- SMT process compatibility - Ultra miniature size
4PIN DIP/DF series  19.5 x 7.1 x 6.9	1A 1B	5, 12, 24	10	200	0.5	- DIP transfer molded package - Miniature size - Standard DIP footprint
8PIN DIP/DA-DB series  19.5 x 7.1 x 6.9	1A } 2A } 1B } 1C 1A Mercury	5, 12, 24	10 3 50	200 100 500	0.5 0.25 2.0	- Industry standard DIP package - Various contact configurations - Two standard coil terminations - UL MODELS AVAILABLE
SIP/DH series  19 x 5 x 5.7	1A	5, 12, 24	10	200	0.5	- Ultra miniature size - Industry standard footprint - UL MODELS AVAILABLE
SIP/DG series  19.5 x 7 x 7.6	1A 1B 1A Mercury	5, 12, 24	10 10 50	200 200 500	0.5 0.5 2.0	- Miniature size - Industry standard package
SIP/SG series  23.5 x 7 x 7.6	1A 1B 1C 1A Mercury	5, 12, 24	10 10 3 50	200~500 300 100 500	0.5 0.5 0.25 2.0	- Various contact configurations - Up to 4000VAC isolation - UL MODELS AVAILABLE
SIP/SD series  25.4 x 9 x 9.5	1A 1C	5, 12, 24	10~50 3	200~1000 100	0.5~1.0 0.25	- Industry standard footprint - High power contacts - UL MODELS AVAILABLE

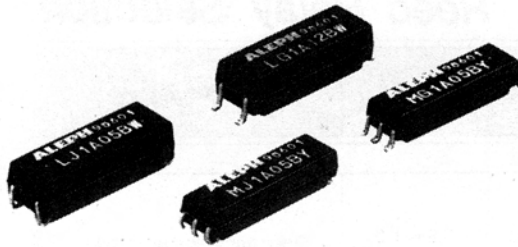
Reed Relay Selection

7

RELAYS

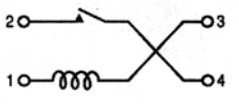
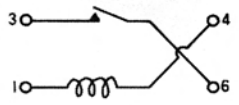
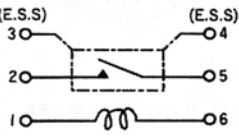
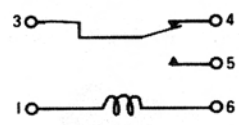
Type/Part Number L × W × H(mm)	Contact Form	Nominal Coil Voltage (VDC)	Contact Power (W)	Switching Voltage (VDC) max.	Switching Current (A) max.	Features
ECONO-OPEN/PB•PC series  1A : 30 × 9.5 × 10	1A 2A 1B 1C 1A Mercury 2A Mercury	5, 12, 24	10~50 3 50	200~1000 100 500	0.5~1.0 0.25 2.0	- Open frame and encased packages - Industry standard package - Various contact configurations - UL MODELS AVAILABLE
TC/PE series  1A : 24 × 10 × 8	1A 2A 1B 1C 1A Mercury 2A Mercury	5, 12, 24	10~50 3 50	200~1000 100 500	0.5~1.0 0.25 2.0	- Transfer molded package - Standard footprint - Various contact configurations
Ultra Compact/Z series  20 × 5 × 6	1A 1C 1A Mercury	5, 12	10 3 50	200 100 1000	0.5 0.25 2.0	- Ultra compact package - Coaxial shields - Metal can for interference immunity - HIGH FREQUENCY (2GHz) MODELS AVAILABLE
Low Thermal/PA series  1A : 29.5 × 14.5 × 12.5	1A 2A 3A 4A	5, 12	10	200	0.5	- Thermal EMF lower than 1μV - High insulation resistance - Industry standard package
High Voltage/PG series  1A : 76 × 35 × 29	1A 2A 1B 2B 1D	5, 12, 24	25~300	2000~6000	0.5~3.0	- High voltage contacts (2K~6KVDC) - High Coil-to-Contact breakdown (10K~15KVDC) - PCB mountable
High Voltage/PM series  65 × 20 × 23	1A	5, 12, 24	25~50	2000~6000	0.5	- High voltage contacts (2K~10KVDC) - High Coil-to-Contact breakdown (10K~15KVDC) - Coil terminated with insulated wires
Current Sensing/PCS series  29.5 × 15 × 15	1A	Nominal Current 14.0A Coil Resistance 6, 8, 10Ω	5	100	0.5	- For telephone line sensing - High Coil-to-Contact insulation 4000 VAC - Choice of coil resistances

Surface Mount Reed Relays



- True SMT process compatibility
- Ultra miniature size
- Sensitive coil (L series)
- Coaxial E. S. shield for RF (M series)

COIL RATINGS (TAMB. = +20°C)

Part Number	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Operate Voltage (VDC) max.	Release Voltage (VDC) min.	Schematics
WJ 1 A □ □ BW WG 1 A □ □ BW	5 12 24	500 1000 2000	3.8 9.0 18.0	0.5 1.0 2.0	
LJ 1 A □ □ BW LG 1 A □ □ BW	5 12	500 1000	3.8 9.0	0.5 1.0	
MJ 1 A □ □ BY MG 1 A □ □ BY	5 12	150 600	3.8 9.0	0.5 1.0	
LJ 1 B □ □ BW LG 1 B □ □ BW	5 12	500 500	3.8 9.0	0.5 1.0	
LJ 1 C □ □ CW LG 1 C □ □ CW	5 12	200 500	3.8 9.0	0.5 1.0	

L • M • W Series

7

RELAYS

● How to order

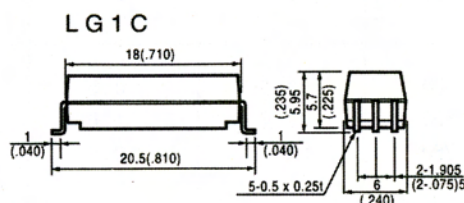
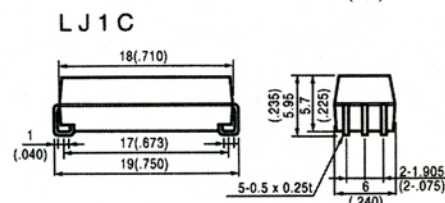
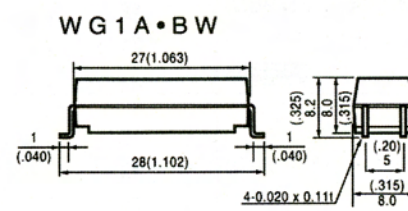
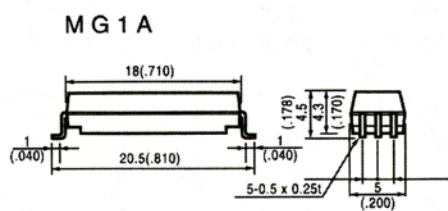
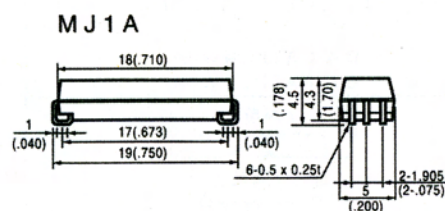
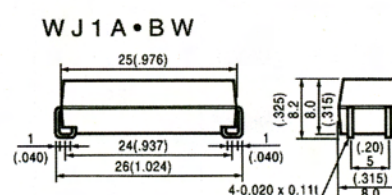
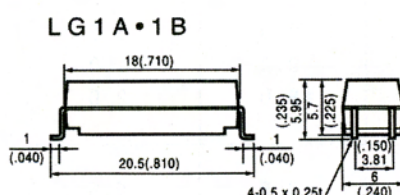
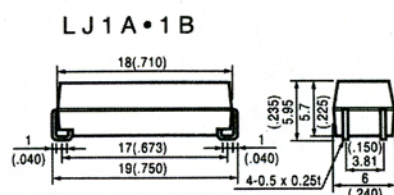
L J 1 A 0 5 B W

W: Standard; Y: Electrostatic Shield (on MJ and MG Series)
 Power-B: 10W C: 3W (1C)
 Nominal coil voltage-5V, 12V, 24V
 Contact form-1A, 1B, 1C
 Termination-J: J-lead G: Gull wing
 L: Sensitive Coil M: Miniature Size W: High Power

■ CONTRACT RATINGS (resistive loads)

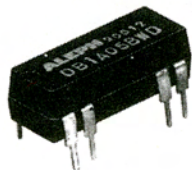
Parameters		L J 1 A ** B W M J 1 A ** B Y L J 1 B ** B W	LG 1 A ** B W MG 1 A ** B Y LG 1 B ** B W	L J 1 C ** C W LG 1 C ** C W	WJ 1 A ** B W WG 1 A ** B W
Power (W) max.		10		3	50
Voltage (VDC) max.		150		100	200
Switching Current (A) max.		0.5		0.25	1.0
Carry Current (A) max.		1.0		0.5	2.0
Contact Resistance (Ω) max. (initial)		0.2		0.2	0.2
Breakdown Voltage (VDC) min.	Open Contact	200		200	250
	Contact to Coil	500		500	1500
Insulation Resistance (Ω) min.	Open Contact	10 ¹⁰		10 ⁹	10
	Contact to Coil	10 ¹⁰		10 ⁹	10
Operate Time (mS) max. (incl. bounce)		1.0		2.0	0.5
Release Time (mS) max.		0.5		2.5	0.5
Electrical Life	Low Level	3 X 10 ⁸ (10mVDC, 10μA)		10 ⁸ (10mVDC, 10μA)	1 X 10 ⁷ (10mVDC, 10μA)
	Rated Load	8 X 10 ⁶ (20VDC, 0.5A)		2 X 10 ⁶ (12VDC, 0.25A)	1 X 10 ⁶ (100VDC, 0.5A)

■ DIMENSIONS Unit: mm (inch)



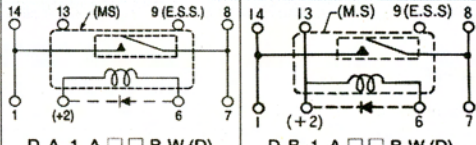
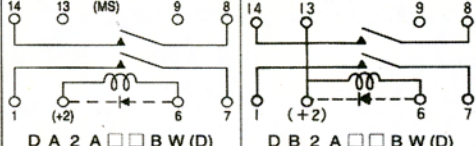
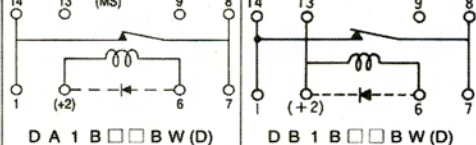
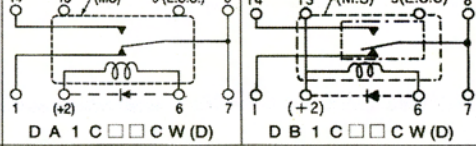
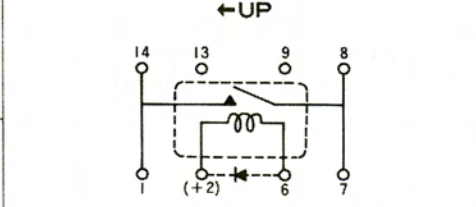
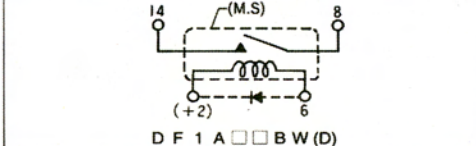
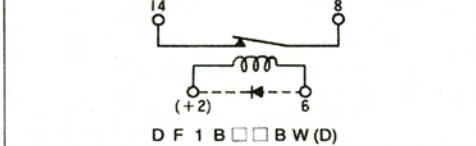
* Lead 0.5 x 0.25 (.020 x .010)

DIP Reed Relays



- Industry standard package
- Transfer molded for environmental protection
- Miniature size
- Compatible with DIP handling, sorting and PCB insertion equipment
- Optional shielding and diodes
- UL models available

COIL RATINGS (TAMB. = +20°C)

Part Number	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Operate Voltage (VDC) max.	Release Voltage (VDC) min.	Schematics
DB 1 A □ □ BW(D) DA 1 A □ □ BW(D)	5 12 24	500 850 2200	3.8 9.0 18.0	0.5 1.0 2.0	 DA 1 A □ □ BW(D) DB 1 A □ □ BW(D)
DB 2 A □ □ BW(D) DA 2 A □ □ BW(D)	5 12 24	200 500 1750	3.8 9.0 18.0	0.5 1.0 2.0	 DA 2 A □ □ BW(D) DB 2 A □ □ BW(D)
DB 1 B □ □ BW(D) DA 1 B □ □ BW(D)	5 12 24	500 500 1750	3.8 9.0 18.0	0.5 1.0 2.0	 DA 1 B □ □ BW(D) DB 1 B □ □ BW(D)
DB 1 C □ □ CW(D) DA 1 C □ □ CW(D)	5 12 24	200 500 1750	3.8 9.0 18.0	0.5 1.0 2.0	 DA 1 C □ □ CW(D) DB 1 C □ □ CW(D)
DA 1 A □ □ NW(D) <i>(Mercury)</i>	5 12 24	90 360 1440	3.8 9.0 18.0	0.5 1.0 2.0	 DA 1 A □ □ NW(D) DA 1 A □ □ DW(D)
DA 1 A □ □ DW(D) <i>(Mercury)</i>	5 12 24	160 500 1440	3.8 9.0 18.0	0.5 1.0 2.0	
DF 1 A □ □ BW(D)	5 12 24	500 850 2200	3.8 9.0 18.0	0.5 1.0 2.0	 DF 1 A □ □ BW(D)
DF 1 B □ □ BW(D)	5 12 24	500 500 1750	3.8 9.0 18.0	0.5 1.0 2.0	 DF 1 B □ □ BW(D)

Note—(M.S.) : Magnetic Shield (E.S.S.) : Electrostatic Shield

DA • DB • DF Series

7

RELAYS

How to Order

D B 1 A 0 5 B W (D)

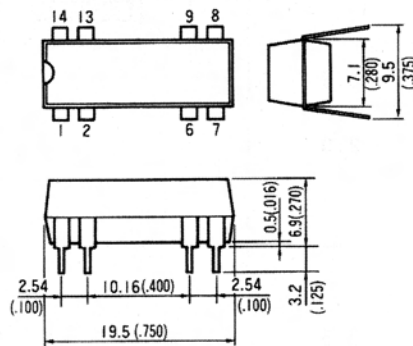
D: Diode (optional)
W: Standard X: Magnetic shield (optional on DA 1A, DB 1A, DA 1C, DB 1C, DF 1A)
Y: Electrostatic shield (optional on DB 1A, DB 1C, DA 1A, DA 1C)
Z: Magnetic & Electrostatic shield (optional on DB 1A, DB 1C, DA 1A, DA 1C)
Power—B: 10W C: 3W (1C) D: 50W (Mercury) N: 50W (Mercury high speed)
Nominal coil voltage—5V, 12V, 24V
Contact form—1A, 2A, 1B, 1C
A: 8-pin DIP with pin #13 not connected B: 8-pin DIP F: 4-pin DIP

CONTACT RATINGS (resistive loads)

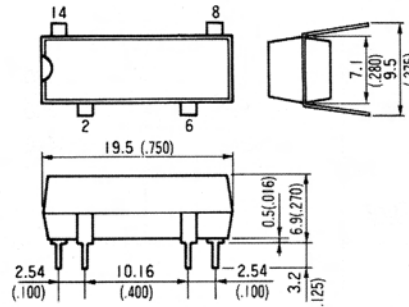
Parameters	DA { DB { 1 A ** BW 2 A ** BW 1 B ** BW	DA { DB { 1 C ** BW	DA 1 A ** NW ** DW Mercury	DF 1 A ** BW 1 B ** BW
Power (W) max.	10	3	50	10
Voltage (VDC) max.	200	100	500	200
Switching Current (A) max.	0.5	0.25	2.0	0.5
Carry Current (A) max.	1.0	0.5	2.0	1.0
Contact Resistance (Ω) max. (initial)	0.15	0.15	0.1	0.15 (1A), 0.2 (1B)
Breakdown Voltage (VDC) min.	Open Contact	250	200	1000
	Contact to Coil	1500	1500	1500
Insulation Resistance (Ω) min.	Open Contact	10^{10}	10^8	10^{10}
	Contact to Coil	10^{10}	10^{10}	10^{10}
Operate Time (mS) max. (incl. bounce)	1.0	2.0	1.0(NW), 2.0(DW)	1.0
Release Time (mS) max.	0.5	2.5	1.0(NW), 2.0(DW)	0.5
Electrical Life	Low Level	10^8 (10mVDC, 10 μ A)	5×10^8 (10VDC, 4mA)	10^9 (10VDC, 4mA)
	Rated Load	6×10^5 (20VDC, 0.5A)	2×10^6 (12VDC, 0.25A)	10^8 (10mVDC, 10 μ A)

DIMENSIONS Unit : mm (inch)

DA • DB Series

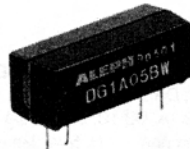


DF Series



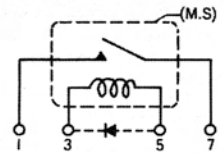
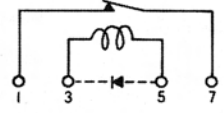
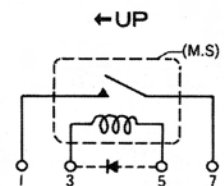
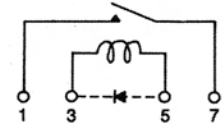
* Lead 0.5 x 0.25 (.020 x .010)

SIP Reed Relays



- Ultra miniature size
Industry standard footprint (SH series)
- Miniature size
Industry standard package (DG series)
- Optional shielding and diodes (DG, SH series)
- UL models available

■ COIL RATINGS (TAMB. = +20°C)

Part Number	Nominal Voltage (VDC)	Coil Resistance ($\Omega \pm 10\%$)	Operate Voltage (VDC) max.	Release Voltage (VDC) min	Schematics
DG 1 A □ □ BW (D)	5 12 24	500 850 2200	3.8 9.0 18.0	0.5 1.0 2.0	
DG 1 B □ □ BW (D)	5 12 24	500 500 1750	3.8 9.0 18.0	0.5 1.0 2.0	
DG 1 A □ □ NW (D) <i>(Mercury)</i>	5 12 24	90 360 1440	3.8 9.0 18.0	0.5 1.0 2.0	
DG 1 A □ □ DW (D) <i>(Mercury)</i>	5 12 24	160 500 1440	3.8 9.0 18.0	0.5 1.0 2.0	
SH 1 A □ □ BW (D)	5 12 24	500 1000 1400	3.8 9.0 18.0	0.5 1.0 2.0	

Note—(M.S.) : Magnetic Shield

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

7

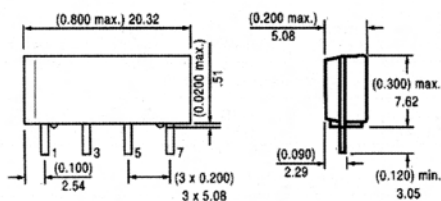
RELAYS

CONTACT RATINGS (resistive loads)

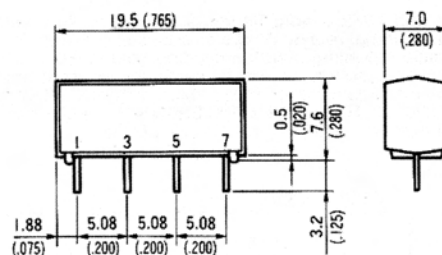
Parameters		DG 1 A ** BW	DG 1 B ** BW	SH 1 A ** BW (D)	DG 1 A ** NW
					DG 1 A ** DW (Mercury)
Power (W) max.			10		50
Voltage (VDC) max.			200		500
Switching Current (A) max.			0.5		2.0
Carry Current (A) max.			1.0		2.0
Contact Resistance (Ω) max. (initial)		0.15	0.20	0.15	0.1
Breakdown Voltage (VDC) min.	Open Contact		250		1000
	Contact to Coil		1500		1500
Insulation Resistance (Ω) min.	Open Contact		10 ¹⁰		10 ⁹ (NW). 10 ¹⁰ (NW)
	Contact to Coil		10 ¹⁰		10 ¹⁰
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 ⁶ (10mVDC, 10μA)		10 ⁶ (10VDC, 4mA)
	Rated Load	6 X 10 ⁵ (20VDC, 0.5A)		10 ⁶ (20VDC, 0.5A)	10 ⁵ (50VDC, 1.0A)

DIMENSIONS Unit : mm (inch)

SH Series



DG Series



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