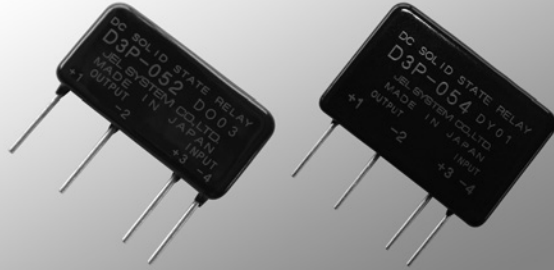


DC Solid State Relay



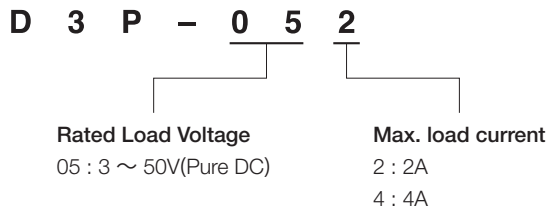
D3P SERIES



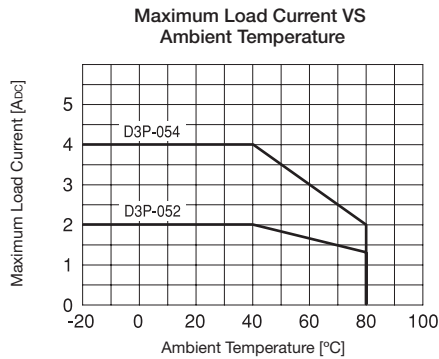
Features

- Small size, Resin casted molding type
- Available for PCB high-density packaging
- Max. load current at 2A, 4A
- SSR for DC load
- Dielectric strength between input and output at 2,500V/1 min.

Type Information

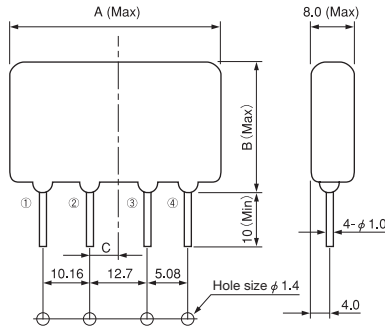


Characteristics



※ Description in the catalogue is subject to change without notice. Please read the specifications thoroughly before using.
 ※ Please contact JEL SYSTEM for further information.

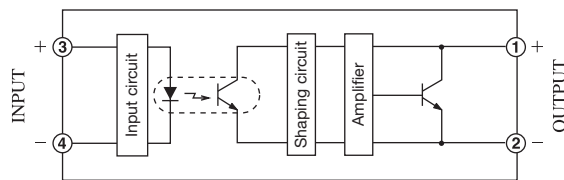
Dimensions (mm)



Model \ Size	A	B	C
D3P-052	35	21	3.8
D3P-054	41	32	4.7

Dimensions For PCB Design

Equivalent Circuit



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■ Ratings

(Ta = 25 °C)

	Item	Symbols	D3P-052	D3P-054	Units
Output	Maximum Load Voltage	V _{OMAX}	50		V _{DC}
	Load Voltage Range	V _o	Pure DC	3 ~ 50	V _{DC}
			Bridge Rectification	35	V _{rms}
	Maximum Load Current	I _{OMAX}	2	4	A _{DC} /A _{rms}
Surge Current Ratings	I _{SURGE}	3 (1 sec)	10 (0.1 sec)	A	
Input	Maximum Input Voltage	V _{IMAX}	24		V _{DC}
	Input Impedance	R _{IN}	1500 ± 20 %		Ω
General	Dielectric Strength	V _{ISO}	2,500/1 min.(Between input and output)		V _{ACrms}
	Isolation Resistance	R _{ISO}	10 ⁸ and above DC500V(Between input and output)		Ω
	Operating Temperature Range	T _{OPR}	- 20 ~ + 80		°C
	Storage Temperature Range	T _{STG}	- 30 ~ + 100		°C

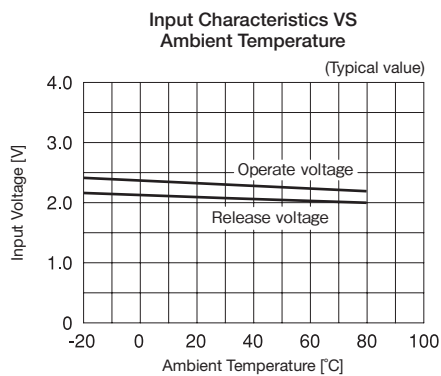
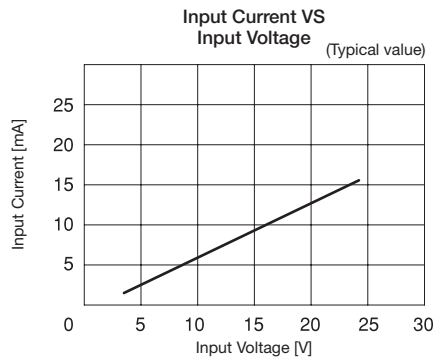
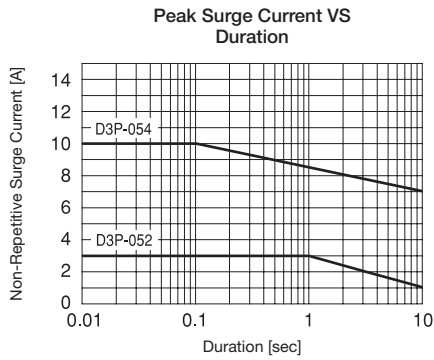
■ Electrical Characteristics

(Ta = 25 °C)

	Item	Symbols	D3P-052	D3P-054	Units
Output	Off State Leakage Current	I _{LEK}	1.0 and below (V _o = 50V)		μA _{DC}
	On State Voltage Drop	V _{SAT}	1.2 and below		V _{DC}
	Minimum Load Current	I _{OMIN}	1		mA
Input	Input Voltage Range	V _i	3.5 ~ 24		V _{DC}
	Operate Voltage	V _P	3.5 and below		V _{DC}
	Release Voltage	V _D	1 and above		V _{DC}
General	Operate Time	T _{ON}	0.5ms and below (Resistance load)		/
	Release Time	T _{OFF}	0.5ms and below (Resistance load)		/
	Capacitance	C _{IO}	15 and below		PF

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