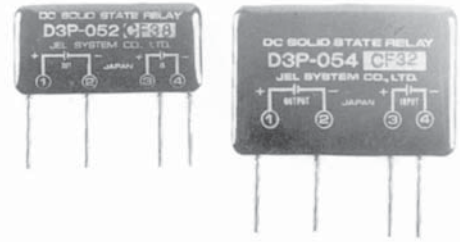


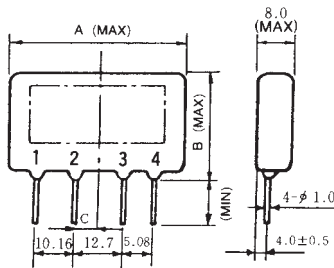
# D3P

## DC SOLID STATE RELAY SERIES

<b>Features</b>	2 to 4 Amperes.
	All solid state DC relays for DC motor, DC solenoid and DC lamp or LED control
	Optically isolated and low leakage current
	Small size, vertical type
	PWB mounting

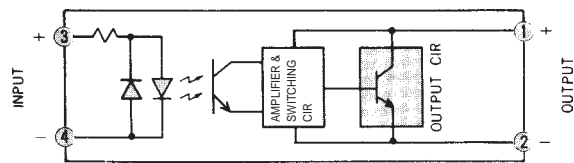


### ■ Dimensions (mm)



MODEL\SIZE	A	B	C
D3P-052	34	19	3.8
D3P-054	40	30	4.7

### ■ Equivalent Circuit



### Ratings

Items		Symbols	D3P-052	D3P-054	Units
<b>Output</b>	Absolute Maximum Voltage	$V_{OMAX}$	50		$V_{DC}$
	Load Voltage Range	Pure D.C.	3~50		$V_{DC}$
		Bridge Rectification	35		$V_{rms}$
	Maximum Load Current	$I_{OMAX}$	2.0	4.0	A <sub>DC</sub> /A <sub>rms</sub>
<b>Input</b>	Maximum Input Voltage	$V_{IMAX}$	24		$V_{DC}$
	Input Impedance	$Z_{IN}$	1.5		$K\Omega$
<b>General</b>	Dielectric Strength	$V_{ISO}$	2,500 (INPUT-OUTPUT)		$V_{ACrms}$
	Isolation Resistance	$R_{ISO}$	$10^9$ (MIN) DC500V (INPUT-OUTPUT)		$\Omega$
	Operating Temperature Range	$T_{OPR}$	-20~+80		$^{\circ}C$
	Storage Temperature Range	$T_{STG}$	-30~+100		$^{\circ}C$

### Electrical Characteristics

Items		Symbols	D3P-052	D3P-054	Units
<b>Output</b>	Off State Leakage Current	$I_{LEK}$	1.0(MAX) $V_O = V_{OMAX}$		$\mu A_{DC}$
	On State Voltage Drop	$V_{SAT}$	1.2 (MAX) ( $T_{OPR}=25^{\circ}C$ )		$V_{DC}$
	Minimum Load Current	$I_{OMIN}$	1		mA <sub>DC</sub>
<b>Input</b>	Input Voltage Range	$V_I$	3.5 ~ 24		$V_{DC}$
	Pick-up Voltage	$V_P$	3.5 (MAX)		$V_{DC}$
	Drop-out Voltage	$V_D$	1.0 (MIN)		$V_{DC}$
<b>General</b>	Response Time	$T_{RES}$	0.5 (MAX) RESISTIVE LOAD		msec
	Capacitance	$C_{IO}$	15 (MAX) (INPUT-OUTPUT)		PF