



Power relay series pursuing reliability and safety





DS2SU

- Currently it is used for such purposes
- Ideal for power supply for audio
- Commercial equipment, Vending machines, Telecommunications equipment,
  Disaster prevention equipment, Copiers, Measuring instruments,
  Medical devices
- Various household appliances

DEC is a professional manufacturer of relays

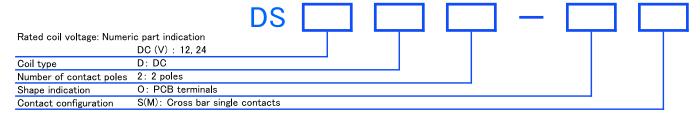


# **DS** series

## ■ Features

- O General purpose relay boasting high reliability and achievement.
- O PCB type.
- O Small size, easy to use 2-poles relay.
- O Ideal for audio speaker protection etc.
- O Conforms to the various safety standards.

## ■ Model numbering system



#### Safety standards

	Contact rating
UL/cUL	8A 50V AC 3A 125V AC 3A 30V DC
Electrical Appliances and Materials Safety Act	Conformable

#### Coil ratings

AC/DC		Item Voltage	Rated current (mA)	Coil resistance $(\Omega)$	Operate voltage (V)	Release voltage (V)	Maximum voltage (V)	consumption
						(W)		
	DC	12	44	275	80% max.	5% min.	110%	0.53
	טט	24	22	1100				

## • Notes:

- 1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is  $\pm 10\%$ .
- 2. Operate voltage and release voltage are values at coil temperature of 20°C.
- 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating power supply with the ambient temperature at 20°C.

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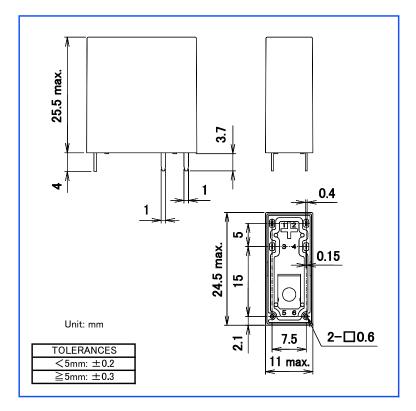
# **DS** series

## ■ Ratings • Performance

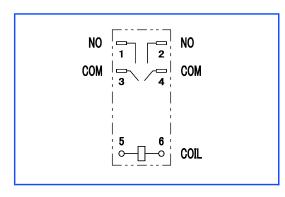
Specifications	Item		Performance		
0	Contact configuration		2a, Crossbar contacts		
Contact specification	Contact resis	stance	30mΩ max. (at DC6V 1A)		
specification	Contact mate	erial	Gold clad silver contact		
	Rated Ioad (r	esistive load)	AC50V 8A AC125V 3A DC30V 3A		
Ratings	Max. switchir	g capacity (resistive load)	400VA		
ratings	Max. switchin	g voltage	AC125V		
	Max. switchin	g current	8A		
	Insulation res	sistance	100M $\Omega$ min. (at DC500V)		
	Dielectric	Between coil and contacts	AC2000V 1 min		
Electrical	strength	Between open contacts	AC1000V 1 min		
capability	Suchgui	Between opposite polarity contacts	AC1000V 1 min		
Capability	Impulse withstand voltage (between coil and contacts)		8000V $(1.2 \times 50 \mus)$		
	Operate time (at rated voltage on, at 20°C)		15ms max. (excluding contact bounce time)		
	Release time (at rated voltage off, at 20°C)		5ms max. (excluding contact bounce time)		
	Vibration	Malfunction	10 to 55 to 10Hz (double amplitude 1.5mm)		
Mechanical	resistance	Destruction	10 to 55 to 10Hz (double amplitude 1.5mm)		
capability	Shock	Malfunction	100m/s <sup>2</sup>		
	resistance	Destruction	1000m/s <sup>2</sup>		
	Mechanical endurance (at 180 times/min)		500 000 times min.		
Life	Electrical endurance		10 000 times min. (at rated load)		
	(at 20 times/min)				
Conditions for	Ambient temperature		$-15^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ (no freezing and condensing at low temperature)		
operation	Ambient humidity		5% to 85%RH		
Mass			approx. 10g		

Notes: The above is the initial value.

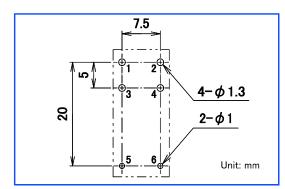
## Dimensions



### Schematics



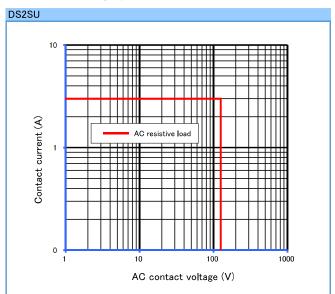
■ PCB mounting holes (tolerances±0.1)



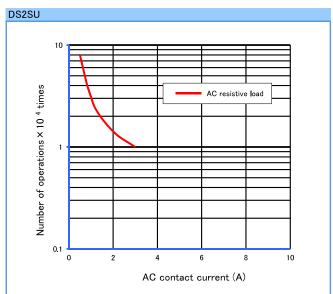
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### Reference data

■ Maximum switching capacity



■ Durability curve



Please understand that specifications may be changed without notice due to product improvement etc.
 Dimensions and specifications indicate only major points. Please contact our sales representatives for details.

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Agency			