

TO-5 CASE RELAY DPDT, HIGH CURRENT



Product Description

A series of ultra miniature hermetically sealed relays constructed in a transistor style case, providing superior performance and established reliability characteristics. Designed for high density PCB mounting is available in a variety of sensitivities. Contact configurations and material improvements to provide a most versatile element to the circuit designer especially for resistive load rated at 2 amperes.

The following construction features ensure the highest reliability in extreme environments:

- All welded relay construction
- Cleaning and sealing techniques ensures maximum internal cleanliness
- 500 mA to 2 amperes switching
- 2 form C, DPDT contacts, special metal alloy with gold plating
- Frame design and force / mass ratio provides exceptional shock and vibration immunity

Series Type (note 1) - MCA* 2 form C, DPDT

Environmental and Physical Specifications

Temperature (Ambient)	$-65^{\circ}C \text{ to } + 125^{\circ}C$				
Shock	75 g, 6 ms.				
Vibration (sinusoidal)	30 g, 10 to 2000 Hz, 1,5 amplitude peak				
Sealing	All welded, Hermetic				
Weight	0,09 oz. (2,55 grams) max.				
Finish	Bright tin lead plated terminations and				
	case				



Electrical Characteristics (over the Temperature range. Unless otherwise noted)

Coil Data	See Typical Characteristics chart					
Contact Rating	Type Load	Contact Load	Cycles min.			
	Resistive	500 mA to 2 A / 28 Vdc (note 2)	100.000			
(Note: All ratings with grounded		500 mA / 115Vac, 60 and 400 Hz (Case not grounded)	50.000			
case)		250 mA / 115 Vac, 60 and 400 Hz	50.000			
	Resistive overload	2,5 A / 28 Vdc	100			
	Inductive	280 mA / 28 Vdc (320 mH)	50.000			
Contact Resistance	0.2Ω max. initial, 0.35Ω max. after life					
Operate Time	3,5 ms. max.					
Release Time	2,5 ms. max.					
Contact Bounce	2,0 ms. Max.					
Dielectric Strength	500 Vrms min., 60 Hz, all points at sea level					
Insulation Resistance	$10.000 \text{ M}\Omega$ min. all points at 500 Vdc					
Sensitivity	150 mW at pick-up, 500 mW at nominal rated coil voltage, at 25 °C					



Typical Characteristics

<u>-JF</u>									
Coil	Coil Voltage Coil resistant		Coil resistance	Operated Voltage		Release Voltage Vdc			
Voltage	e [Vdc]		[Ω]	[Ω] [Vdc]]		Non-re	lease at	Must-rel	ease at
Code	Rated	Max.	± 10% at 25 °C	25 °C	125 °C	25 °C	125 °C	25 °C	- 65 °C
5	5,0	5,8	50	3,0	4,2	1,5	2,5	0,20	0,14
6	6,0	8,0	98	3,8	4,8	2,3	3,5	0,28	0,18
9	9,0	12,0	220	5,5	7,0	3,2	5,1	0,54	0,35
12	12,0	16,0	390	8,0	10,0	4,2	6,8	0,65	0,43
18	18,0	24,0	880	11,0	14,0	6,4	10,4	0,91	0,59
26	26,5	32,0	1560	14,5	18,2	8,2	13,3	1,4	0,9



Terminal Locations .031 (0,79) \pm .003 (0,08) .035 (0,89) \pm .010 (0,25) .200 (5,08) \pm .010 (0,25) Note: - Dimensions are shown in inches (millimetres) - Viewed from terminals, numbers are for reference only



