DG81C
sub miniature automotive power relay





- Sub miniature - only 15.7 x 12.3 x 13.8mm
- Up to 2 x 35A SPST-NO-DM
- For indicators, hazard warning & ABS
- Cost effective
- RoHS Compliant

Contacts

Contact number & arrangement		SPST-NO-DM (1 Form U)
Contact material		AgNi0.15; AgSnOInO; AgCdO
Max. switching voltage	DC	16VDC (consult factory for 24VDC)
Min. switching current / voltage		1mA/5VDC (AgNi0.15), 0.5A/12VDC (AgSnOInO)
Rated load	DC1	2 x 30A
Max. continuous current	DC1	2 x 30A (2 mins)
Max. switching current	Make	2 x 35A (Lamp load inrush)
	Break	2x 12.5A
Initial resistance		100mΩ, max. at 0.1A/6VDC
Coil		
Rated voltage	DC	6...12V
Must release voltage		See coil table 1
Operating range of supply voltage		See coil table 1
Rated power consumption	DC	0.85W
Insulation		
Insulation resistance		100MΩ at 500VDC, 50%RH
Dielectric strength		
	coil to contact	500Vrms, 1min
	contact to contact	500Vrms, 1min
General Data		
Operating time (typical)	mS	10
Release time (typical)	mS	5
Electrical Life	ops	1×10^5
Mechanical life	ops	1×10^7
Dimensions	L x W x H	15.7 x 12.3 x 13.8mm
Weight		6g approx.
Ambient temperature	storage	-40 to 100°C
	operating	-40 to 85°C
Shock resistance		Functional: 10g 11mS; Destructive: 100g
Vibration resistance		DA 1.5mm 10-55Hz

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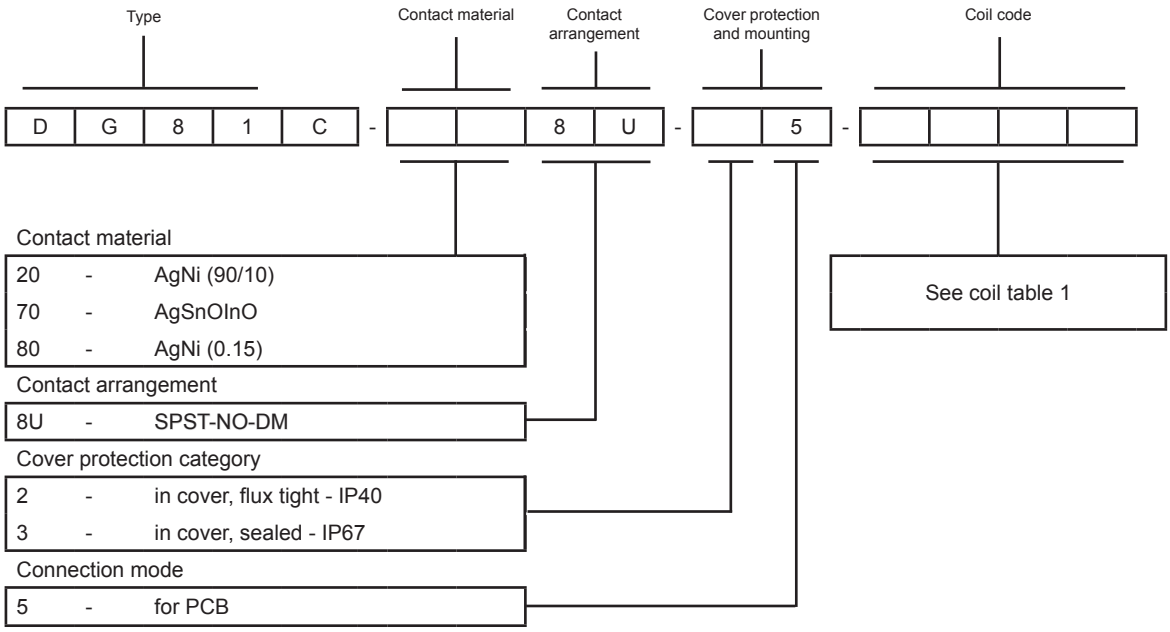
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Coil Data

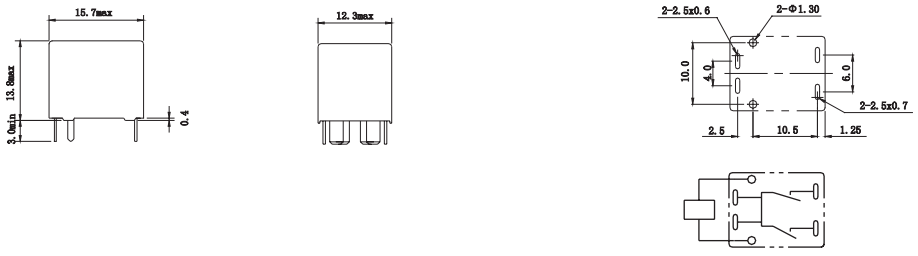
Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1006	6	42	3.5	0.5
1009	9	94	5.2	0.7
1010	10	117	6.3	0.8
1012	12	167	7.3	1.0

Ordering codes



Overall Dimensions, PCB Mounting Holes & Wiring Diagram



Dimensions in mm

Notes:
1) All parameters, unless otherwise specified, are measured at an ambient temperature of 23°C.
2) Maximum make current refers to inrush current of lamp load.
3) Electrical life obtained at lamp load, at resistive load 2 x 6A, 14VDC with 1ms ON, 14ms OFF.
4) Electrical life is strongly dependent of switching frequency, ON/Off ratio, environmental conditions and load type.

Specifications are subject to change without notice. E&OE.

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