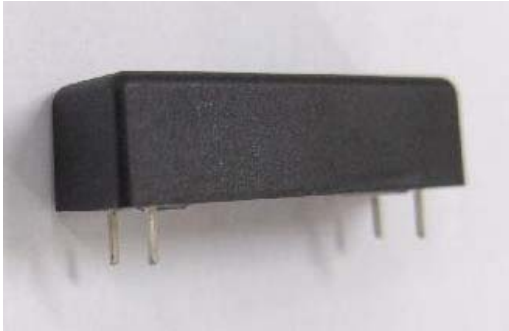
Mercury Wetted Reed Relays

Datasheet GUP 40008

Comus International Bvba
Overhaamlaan 40
3700 Tongeren, Belgium
Phone: +32 12390400
Fax: +32 12235754
Email: info@comus.be
www.comus.be



Features

* ***Miniature mercury wetted reed relay, single pole, form A***
* ***PCB Mounting***
* ***Fully encapsulated***
* ***Plastic case***

Technical data

Input Data/Coil Data	Conditions		unit
Nominal voltage		12	V
Coil resistance	+/- 10 %	800	Ohm
Must operate / Pull in		8.5	V
Must release / Drop out		1.0	V
Nominal input power		180	mW

Output Data/Contact Data	Conditions		unit
Max. switching power	Max DC/PeakAC Resistive	50	W/VA
Max. switching voltage	Max DC/PeakAC Resistive	500	V
Max. switching current	Max DC/PeakAC Resistive	2	A
Max. carry current	Max DC/PeakAC Resistive	4	A
Max. contact resistance	50 mV, 10 mA	70	mOhm
Life expectancy, min	1 V, 10 mA	1×10^9	Ops.
Contact material		Mercury	

Relay parameters	Conditions	MIN	TYP	MAX	UNITS
Insulation resistance	between contacts	10^{10}			Ohms
	Between contact and coil at 500 V, 25°C, 40% RH	10^{10}			Ohms
Capacitance	Across open contacts		0.5	0.6	pF
	Open contact to coil			4.0	pF
Dielectric strength	Between contacts	1500			VDC/Peak AC
	Contacts to coil	1500			VAC
Operate time	At nominal coil voltage, 10 Hz Sq.W.			3.0	ms
Release time	Zener-diode suppression			2.0	ms

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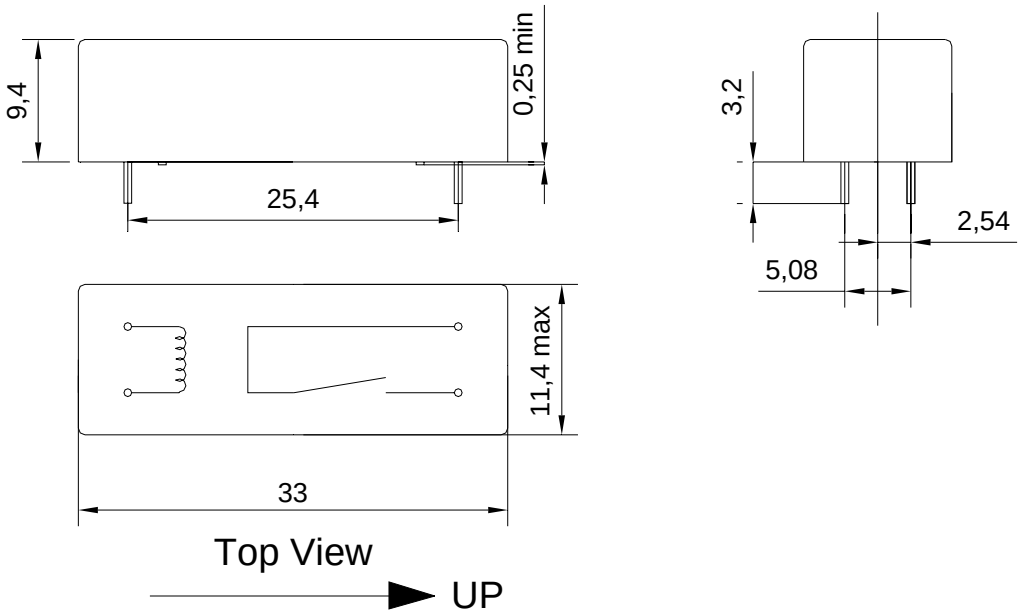
Environmental Ratings

Operating temperature		-38.8	85	°C
Storage temperature		-40	105	°C
Shock resistance	1/2 sine wave duration 11 ms		30	g
Vibration resistance	10 to 500 Hz		10	g
Weight				grams
Terminal solderability	IEC 68-2-20 test Ta, method 1, solderbath temp 235°C, immersion time 2 sec			
Resistance to solder heat	IEC 68-2-20 test Tb, method 1A, solderbath temp 260°C, immersion time 10 sec			

Dimensions in mm



Ordering Information

GUP 40008