

Miniature 10 Amps • 2PDT To MIL-PRF-83536 DC Suppressed Coils

SPECIFICATIONS

GENERAL

Contact Arrangement..... 2PDT (2 Form C)
Weight..... 1.6 oz approx.

Designed to meet the requirements of MIL-PRF-83536

PERFORMANCE

Contact Rating (Note 1)

Resistive..... 10 Amps @ 28 VDC or
 115/208V 400 Hz
 (Case Grounded)
 Inductive..... 8 Amps @ 28 VDC or
 115/208V 400 Hz
 2.5 Amps @ 115/208V 60 Hz
 (Case Grounded)
 Motor..... 4 Amps @ 28 VDC or
 115/208V 400 Hz
 2 Amps @ 115/208V 60 Hz
 (Case Grounded)
 Lamp..... 2 Amps @ 28 VDC or
 115/208V 400 Hz
 (Case Grounded)
 1.5 Amps @ 115/208V 60 Hz
 (Case Grounded)

Life 100,000 operations minimum @ rated
 resistive load, 125°C

Pull In Power..... 500 mw approx.

Operate/Release Time: **DC Coil**
 15 ms max

Excluding bounce time at nominal coil voltage

Contact Bounce Time..... 1 ms max
 @ rated contact load, 28 VDC

Contact Voltage Drop:
 Before Life 100 mv max @ 10 Amps
 and 6 VDC
 After Life 125 mv max @ 10 Amps
 and 6 VDC

ENVIRONMENTAL

Temperature Range..... -70°C to +125°C

Vibration (Note 2)..... 0.12" DA 10 - 70 Hz
 30 G's 70 - 3,000 Hz

Shock (Operating)(Note 2) 200 G's 6 ms

ELECTRICAL CHARACTERISTICS

Duty Cycle..... Continuous

Insulation Resistance 100 megohms
 @ 500V 25°C

Dielectric Strength:

Sea Level:

Contact to Case 1,250 VRMS

Contact to Coil 1,250 VRMS

Coil to Case 1,000 VRMS

Across Open Contacts 1,250 VRMS

80,000 Feet:

All Points 350 VRMS

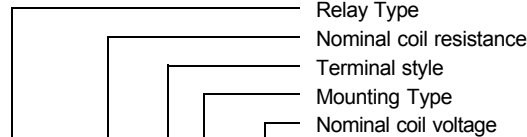
MIL-PRF-83536/10 QUALIFIED to ER level M

Notes

- For other ratings consult the factory.
- For applications requiring higher shock and vibration, consult the factory.
- AC coil line frequency 50 to 400 Hz.

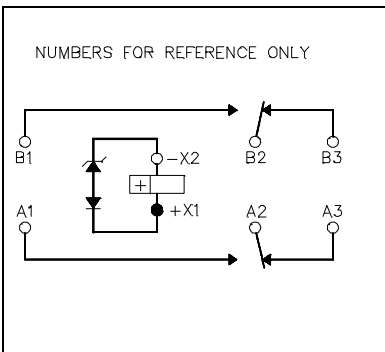
COIL DATA

MODEL BR246D PART NUMBER	BR246D-2000-6V	BR246D-8000-12V	BR246D-32000-28V	BR246D-100000-48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC
PULL IN VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC
DROP OUT VOLTAGE (MAX)	1.8 VDC	3.5 VDC	5.1 VDC	11 VDC
MAXIMUM BACK EMF	9 VDC	18 VDC	42 VDC	72 VDC
COIL RESISTANCE $\pm 10\%$ @ 25°C	20 OHMS	80 OHMS	320 OHMS	1000 OHMS

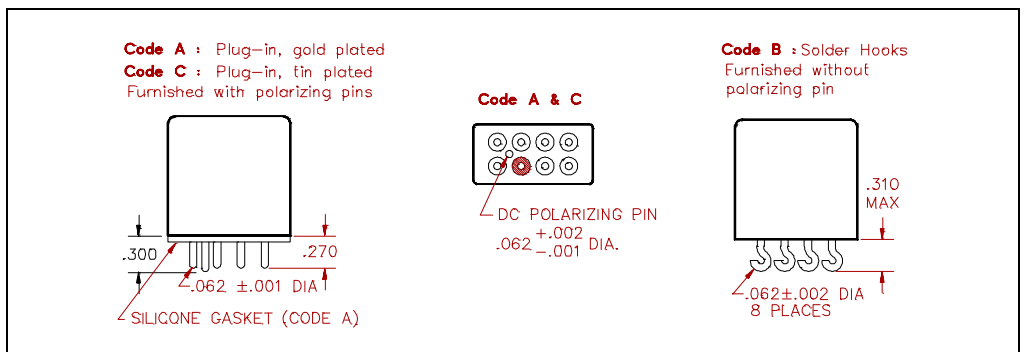


BR246D - 320 C 2 - 28V

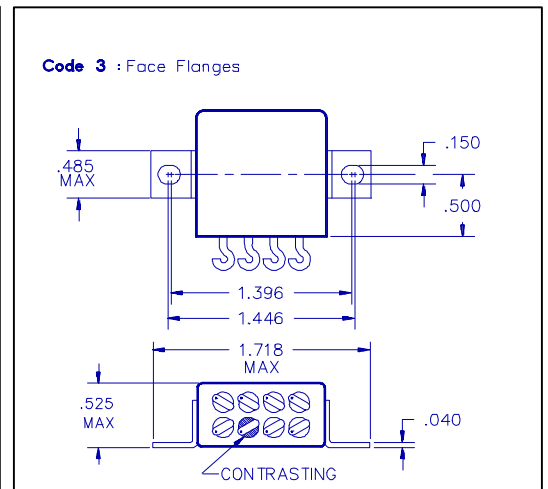
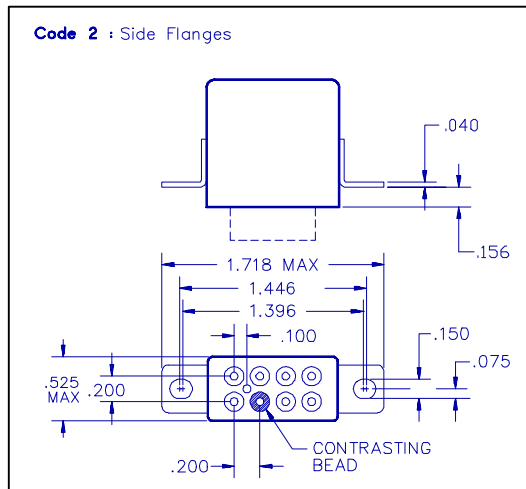
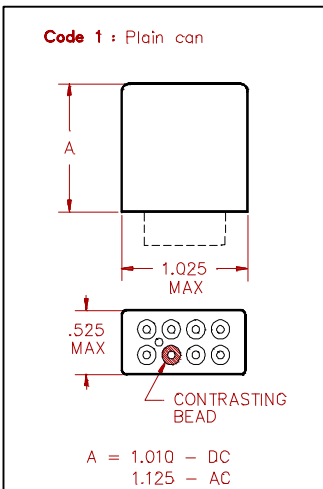
SCHEMATIC TERMINAL VIEW



TERMINAL STYLES



MOUNTING CODES



GENERAL NOTES

- Unless otherwise specified, all tests made at nominal coil voltages, @ 25°C.
- For special coil variations, switching configurations, terminals styles and mounting types, consult the factory.
- Unless otherwise specified, tolerances on decimal dimensions are $\pm .010"$.
- Specifications contained herein are subject to change without notice.



Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo,
CA 92656 USA

Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Sales: +1 (949) 380-6136
Fax: +1 (949) 215-4996

E-mail: sales.support@microsemi.com

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