



**Miniature  
25 Amps • 1PDT  
To MIL-PRF-6106  
DC Suppressed Coils**

**SPECIFICATIONS**

**GENERAL**

**Contact Arrangement** ..... 1PDT (1 Form C)  
**Weight**.....1.6 oz approx.  
Designed to meet the requirements of MIL-PRF-6106

**PERFORMANCE**

**Contact Rating** (Note 1):  
Resistive ..... 25 Amps @ 28 VDC or  
115/208V 400 Hz  
(Case Grounded)  
  
Inductive .....15 Amps @ 115/208V 400 Hz  
(Case Grounded)  
10 Amps @ 28 VDC  
(Case Grounded)  
  
Motor..... 10 Amps @ 28 VDC or  
115/208V 400 Hz  
(Case Grounded)  
  
Lamp ..... 5 Amps @ 28 VDC or  
115/208V 400 Hz  
(Case Grounded)

**Life** .....50,000 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..... 150 mv max @ 25 Amps  
and 6 VDC  
After Life ..... 175 mv max @ 25 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

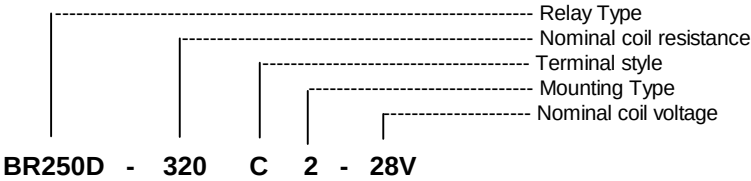
**MIL-PRF-6106/19 QUALIFIED**

Notes:

1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.

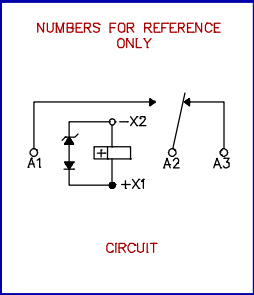
COIL DATA:

| MODEL BR250D PART NUMBER       | BR250D-20()()-6V | BR250D-80()()-12V | BR250D-320()()-28V | BR250D-1000()()-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 ± 10% @ 25°C   | 20 OHMS          | 80 OHMS           | 320 OHMS           | 1000 OHMS           |

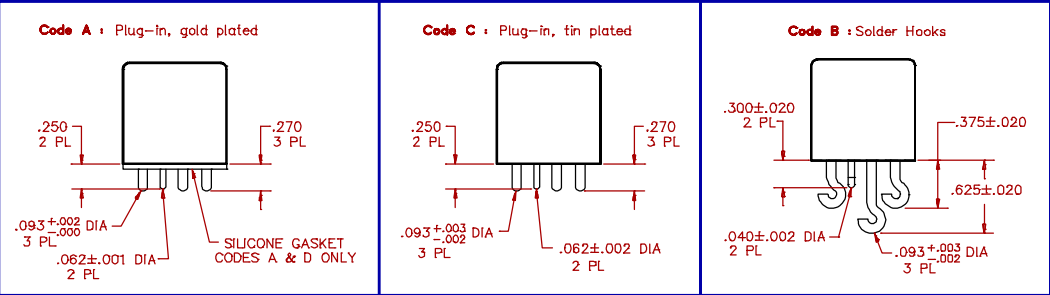


SCHEMATIC

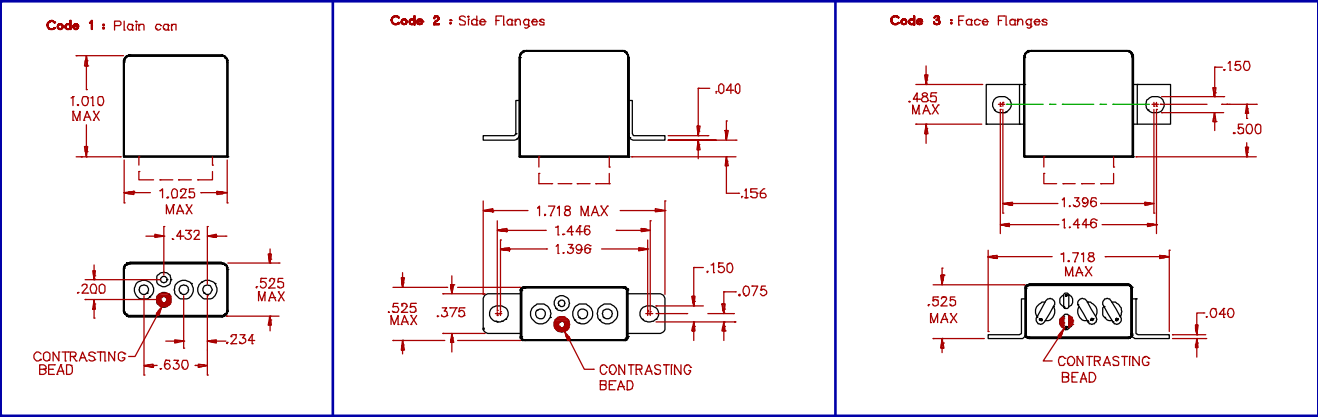
TERMINAL VIEW



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 ± .010".
- Specifications contained herein are subject to change without notice.