

Double Pole, Electrically Held, 2 Amps and Less (Continued)

.150 Grid-space Relays

Type 3SBC (2PDT) Standard

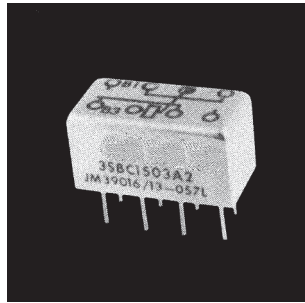
135 mW 2PDT

50 mW (Form AB)

1 PNC-1 PNO

Product Facts

- Low profile... only 0.32 inches high
- Internal diode for coil transient suppression and transistor driven models available
- Qualified to MIL-R-39016/13
- RF designs available



The .150 Grid-space relay — only 0.32 inches high — saves space in electronic packaging. The pin spacing allows you to insert the relay with no intermediate pin spreaders as well as meet applicable military specifications.

Electrical Characteristics

Contact Ratings —

DC resistive — 2 amps at 28 volts (50,000 operations)
1 Amp @ 28 V (100,000 operations)
DC inductive — 0.5 amps at 28 volts, 200 mH
AC resistive — 0.5 amps at 115 volts
AC — 0.125 amps at 115 volts (case grounded)
Low-level — 50 μ A at 50 mV
Peak AC or DC

Contact Resistance —

0.050 ohms max.; 0.150 ohms after life test

Life — 100,000 operations at rated loads listed; 1,000,000 operations at low-level loads

Operating Characteristics

Operate Time — 4 ms max.

Release Time — 4 ms max.

Contact Bounce — 1.5 ms

Dielectric Strength —

500 volts rms at sea level;
350 volts rms at 70,000 feet and above

Insulation Resistance — 1,000 megohm min. over temperature range

Environmental Characteristics

Vibration — 30G, to 3000 Hz

Shock — 100 G at 11 ms

Temperature — -65°C to +125°C

See page 1-44 for Mounting Forms, Terminals and Circuit Diagrams.

Coil Table Type 3SBC (All Values DC)*2PDT, 135 mW Sensitivity: (Code 1)

Coil Code Letter	Coil Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Continuous Current @ 125C (mA)	Max. Operate Current @ 25C (mA)	Release Current Range @ 25C (mA)	
				Max.	Min.			Max.	Min.
A	44 $\pm$ 10%	3.5-6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
B	56 $\pm$ 10%	4.0-7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 $\pm$ 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 $\pm$ 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 $\pm$ 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 $\pm$ 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	2245 $\pm$ 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

Coil-Data (All Values DC)* Type 3SBC Form AB 50 mW Sensitivity non mil spec: (Code 2)

Coil Code Letter	Coil Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Continuous Current @ 125C (mA)	Max. Operate Current @ 25C (mA)	Release Current Range @ 25C (mA)	
				Max.	Min.			Max.	Min.
B	56 $\pm$ 10%	2.6-7.0	1.8	1.1	0.16	46.5	29.1	18.2	3.30
C	85 $\pm$ 10%	3.3-9.5	2.3	1.4	0.20	38.7	24.2	15.1	2.70
D	140 $\pm$ 10%	4.3-12.0	2.9	1.8	0.27	30.4	19.0	11.9	2.10
E	210 $\pm$ 10%	5.3-14.0	3.6	2.2	0.33	24.8	15.5	9.7	1.75
F	360 $\pm$ 10%	6.7-19.0	4.5	2.8	0.41	18.9	11.8	7.2	1.30
G	510 $\pm$ 10%	8.2-23.0	5.6	3.5	0.51	15.8	9.9	6.2	1.10
H	775 $\pm$ 10%	10.0-26.0	6.8	4.2	0.62	12.8	8.0	5.0	0.90
K	1350 $\pm$ 10%	13.2-35.0	9.0	5.6	0.82	9.8	6.1	3.8	0.68
N	2245 $\pm$ 10%	16.8-46.0	11.4	7.1	1.00	7.4	4.6	2.9	0.52

*Values listed are factory test and inspection data. User should allow for meter variations.

†At nominal resistance plus 10%.

‡Applicable over the operating temperature range in circulating air.

See Page 1-42 for ordering instructions.

* The part number example shown on this page is for catalog items. For a list of specific QPL part numbers, please see the index in Section 15.

Double Pole, Electrically Held, 2 Amps and Less (Continued)

.150 Grid-space Hybrid Relays

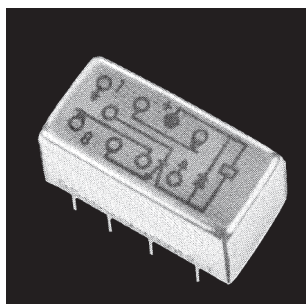
Single Diode, Dual Diode

Type 3SBC (2PDT)

135 mW

Product Facts

- Low profile... only 0.32 inches high
- 50 milliwatt forms available
- Qualified to MIL-R-39016/37
- Qualified to MIL-R-39016/38
- RF designs available



The hybrid .150 Grid-space relay — only 0.32 inches high — saves space in electronic packaging. The pin spacing allows you to insert the relay with no intermediate pin spreader.

Electrical Characteristics

Contact Ratings —

DC resistive — 2 amps at 28 volts (50,000 operations)
1 Amp @ 28 V (100,000 operations)
DC inductive — 0.5 amps at 28 volts, 200 mH
AC resistive — 0.5 amps at 115 volts
AC — 0.125 amps at 115 volts (case grounded)
Low-level — 50 μ A at 50 mV
Peak AC or DC

Contact Resistance —

0.050 ohms max.; 0.150 ohms after life test

Life — 100,000 operations at rated loads listed; 1,000,000 operations at low-level loads

Operating Characteristics

Operate Time — 4 ms max.

Release Time — 6 ms max.

Contact Bounce — 1.5 ms

Dielectric Strength (Note 1) —

500 volts rms at sea level;
350 volts rms at 70,000 feet and above

Insulation Resistance (Note 1) —

1,000 megohm min. over temperature range

Environmental Characteristics

Vibration — 30G, to 3000 Hz

Shock — 100 G at 11 ms

Temperature — -65°C to +125°C

Semiconductor Characteristics at 25°C

Diode —

Max. Negative Transient — 1.0 volt

Breakdown Voltage — 100 VDC @ 10 μ A

Max. Leakage Current — 1 μ A @ 50 VDC

See page 1-44 for Mounting Forms, Terminals and Circuit Diagrams.

Coil Table Single Diode (All Values DC)* (2DPT), 135 mW Sensitivity: (Code 5)

Coil Code Letter	Coil Resistance (@ 25C (ohms))	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
		Suggested Source Volts†	Max. Operate Volts (@ 25C)	Release Voltage Range (@ 25C)		Max. Continuous Current (@ 125C (mA))	Max. Operate Current (@ 25C (mA))	Release Current Range (@ 25C (mA))	
				Max.	Min.			Max.	Min.
A	44 $\pm$ 10%	3.5- 6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
B	56 $\pm$ 10%	4.0- 7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 $\pm$ 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 $\pm$ 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 $\pm$ 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 $\pm$ 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	2245 $\pm$ 10%	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

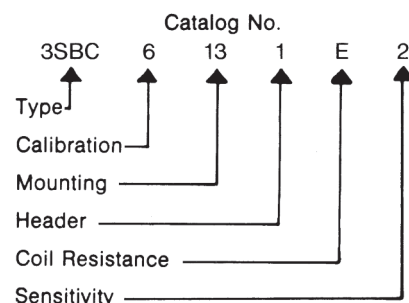
Coil Table Dual Diode (All Values DC)* (2DPT), 135 mW Sensitivity: (Code 6)

	**								
A	44 $\pm$ 10%	3.9- 7.0	3.4	2.0	0.37	98.2	77.3	45.5	8.4
B	56 $\pm$ 10%	4.6- 8.0	3.7	2.2	0.41	89.8	66.1	39.3	7.1
D	140 $\pm$ 10%	7.8-12.0	5.4	3.2	0.6	52.4	38.6	22.9	4.3
E	210 $\pm$ 10%	9.3-16.0	6.4	3.8	0.7	41.4	30.5	18.1	3.3
L	650 $\pm$ 10%	15.0-24.0	10.5	6.2	1.1	23.6	16.2	9.5	1.7
K	1350 $\pm$ 10%	21.0-35.0	14.5	8.7	1.6	16.0	10.7	6.4	1.2
N	2245 $\pm$ 10%	27.0-46.0	18.1	10.9	2.0	12.1	8.1	4.9	0.9

Ordering Instructions

Example: The relay selected in the example is a FORM AB .150-grid relay, current calibrated, and bracket mounting with 0.13-inch solder hook header, 210 ohms coil resistance, and 50 mW sensitivity. By choosing the proper code for each of these relay characteristics, the catalog number is 3SBC6131E2. The letter R following sensitivity code indicates relay received 5000 operation miss-test. Ex. 3SBC6131E2R.

Note: Relays specified by catalog numbers (per above directions) are general use items controlled by catalog specifications. Relays to be controlled by customer drawings — or relays having requirements not covered in this publication — will be assigned special catalog numbers upon request.



* The part number example shown on this page is for catalog items. For a list of specific QPL part numbers, please see the index in Section 15.

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