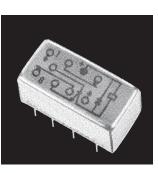


Double Pole, Electrically Held, 2 Amps and Less (Continued)

.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 μA 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 µA Max. Leakage Current — 1 µA @ 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 Resistance @ 25C (ohms)	Voltage Calibrated, Code 5				Current Calibrated, Code 6			
Coil Code Letter		Suggested Source Volts†	Max. Operate Volts @ 25C	Release Voltage Range @ 25C		Max. Contin- uous Current	Max. Operate Current @	Release Current Range @ 25C (mA)	
				Max.	Min.	@ 125C (mA)	25C (mA)	Max.	Min.
Α	44±10%	3.5- 6.2	2.4	1.45	0.26	87.0	54.5	32.7	6.00
В	56±10%	4.0- 7.0	2.7	1.6	0.3	77.0	48.3	28.6	5.30
D	140 ± 10%	6.4-12.0	4.4	2.6	0.5	50.3	31.4	18.5	3.60
E	210 ± 10%	8.0-16.0	5.4	3.2	0.6	40.0	25.7	15.4	2.80
L	650 ± 10%	13.6-24.0	9.5	5.6	1.0	22.9	14.3	8.6	1.54
K	1350 ± 10%	20.0-35.0	13.5	8.1	1.5	15.5	10.0	6.0	1.10
N	$2245\pm10\%$	26.0-46.0	17.1	10.5	1.9	12.0	7.6	4.7	0.84

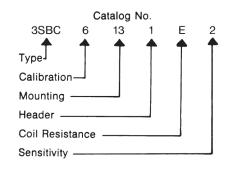
Coil Table Dual Diode (All Values DC)*(2DPT), 135 mW Sensitivity: (Code 6)

	**								
A	44 ± 10%	3.9- 7.0	3.4	2.0	0.37	98.2	77.3	45.5	8.4
B	56±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 ± 10%	15.0-24.0	10.5	6.2	1.1	23.6	16.2	9.5	1.7
K	1350 ± 10%	21.0-35.0	14.5	8.7	1.6	16.0	10.7	6.4	1.2
N	2245 ± 10%	27.0-46.0	18.1	10.9	2.0	12.1	8.1	4.9	0.9
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, end 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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Catalog 5-1773450-5 Dimensions are shown for Revised 3-13 Specifications subject www.te.com to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 For additional support numbers please visit www.te.com