

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	INITIAL DRAWN	19NOV2019	RV	MB

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 — 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

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.

.150 Grid-space Relays
Type 3SBC (2PDT) Standard
135 mW 2PDT
50 mW (Form AB)
1 PNC–1 PNO

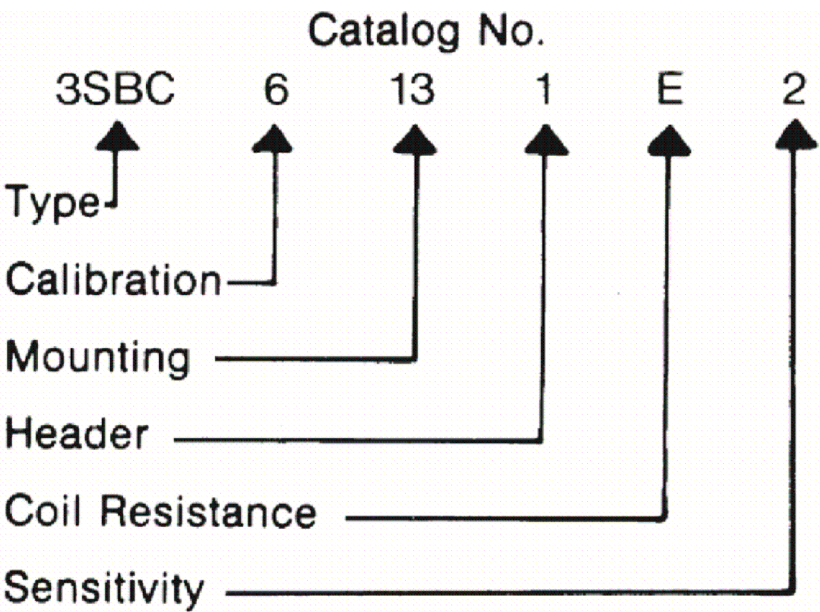
Product Facts

- 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

.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



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	RV	19NOV2019	TE Connectivity		
		CHK	RV	19NOV2019			
		APVD	MB	19NOV2019	NAME		
		PRODUCT SPEC			3SBC–SERIES		
		APPLICATION SPEC			—		
		—			SIZE	CAGE CODE	DRAWING NO
		WEIGHT			A3	—	©=3SBC–SERIES
		CUSTOMER DRAWING			SCALE	SHEET	REV
					NTS	1 OF 3	A

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REVISIONS

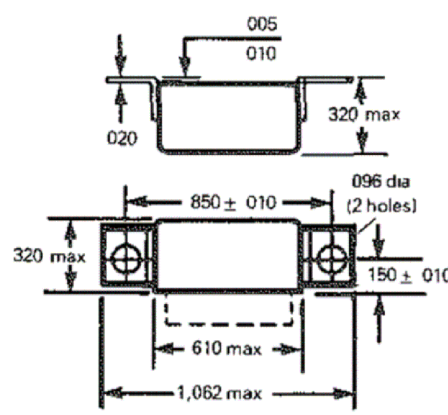
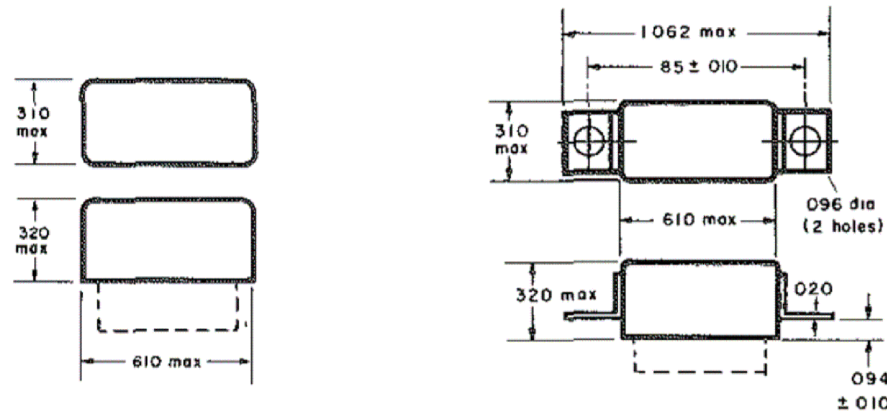
P	LTR	DESCRIPTION	DATE	DWN	APVD
	—	SEE SHEET 1	—	—	—

Mounting Forms
(3SBC, 3SCC)

(Vibration note with each
form is acceleration from
55 to 3000 Hz)

All dimensions in inches

TOLERANCES (Unless otherwise specified)	
Hundredths	± 0.020
Thousandths	± 0.005



No Mount

Mounting Code	Vibration
00	30g

*Assumes relay held securely by potting or
other means

End Bracket

Mounting Code	Vibration
13	30g

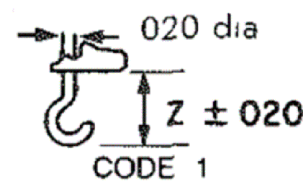
Side Bracket

Mounting Code	Vibration
25	30g

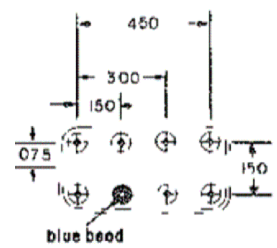
Header and Connection
Diagrams

Header Types

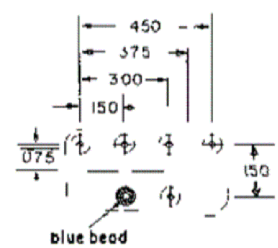
TYPE	Z DIMENSION	HEADER CODE
Solder hook	0.13	1



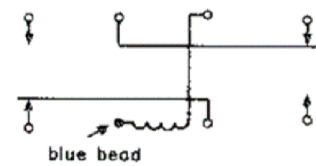
CODE 1, 5, & 6



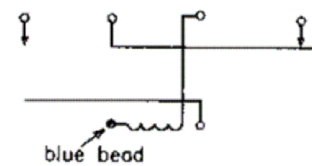
CODE 2



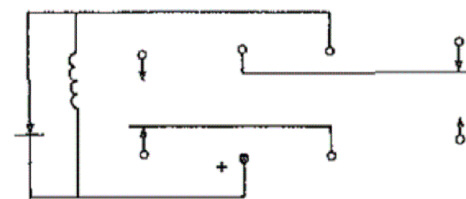
Terminal View



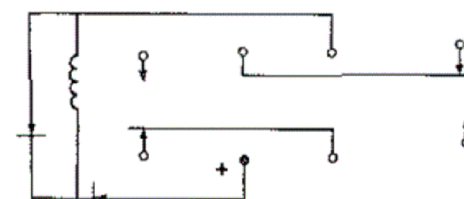
CODE 1



CODE 2



CODE 5
SINGLE DIODE



CODE 6
DUAL DIODE

Electrical Characteristics

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(50,000 operations)

1 Amp @ 28 V (100,000 operations)

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200 mH

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.150 Grid-space
Hybrid Relays

Single Diode, Dual Diode

Type 3SBC (2PDT)

135 mW

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range

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Shock — 100 G at 11 ms

Temperature — -65°C to +125°C

Semiconductor Characteristics
at 25°C


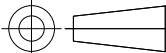
Diode —

Max. Negative Transient — 1.0 volt

Breakdown Voltage — 100 VDC @ 10 µA

Max. Leakage Current — 1 µA @ 50 VDC

ALL DIMENSIONS ARE IN INCHES

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RV		19NOV2019		<div>TE Connectivity</div>						
		CHK RV		19NOV2019								
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± — 1 PLC ± — 2 PLC ± — 3 PLC ± — 4 PLC ± — ANGLES ± —		APVD MB		19NOV2019		NAME				
	PRODUCT SPEC			—		3SBC—SERIES — —						
	APPLICATION SPEC			—								
	SIZE			CAGE CODE				DRAWING NO		RESTRICTED TO		
	A3			—				C-3SBC—SERIES		—		
	CUSTOMER DRAWING			SCALE				SHEET		REV		
MATERIAL —		FINISH —		WEIGHT —		NTS		3 OF 3		A		

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