

CENTRAL SEMICONDUCTOR

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UNIUNCTION TRANSISTORS (UJT)s are highly stable trigger devices designed for use in a variety of applications over a wide temperature range. These applications include: Pulse Generators, Saw Tooth Generators, Frequency Dividers, Timing Circuits, and Oscillators. Central Semiconductor UJT's are available in hermetically sealed metal packages as well as a low cost epoxy molded package.

PROGRAMMABLE UNIUNCTION TRANSISTORS (PUT)s are similar to UJT's except that three parameters, Valley Point Current (I_V), Peak Point Current (I_P) and Intrinsic Standoff Ratio (η) are adjustable (programmable) by simply selecting two resistor values. Central Semiconductor PUT's offer low Leakage and Peak Point Current in a low cost epoxy molded package.

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TYPE NO.	TABLE	TYPE NO.	TABLE	TYPE NO.	TABLE	TYPE NO.	TABLE	TYPE NO.	TABLE	TYPE NO.	TABLE
2N489	A	2N492C	A	2N2417	B	2N2421A	B	2N3483	A	2N6027	D
2N489A	A	2N493	A	2N2417A	B	2N2421B	B	2N3484	A	2N6028	D
2N489B	A	2N493A	A	2N2417B	B	2N2422	B	2N3980	B	A7T6027	D
2N490	A	2N493B	A	2N2418	B	2N2422A	B	2N4851	B	A7T6028	D
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2N491	A	2N494C	A	2N2419A	B	2N2840	B	2N4871	C	MU2646M	B
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2N491B	A	2N1671A	A	2N2420	B	2N3480	A	2N4948	B	MU4892	C
2N492	A	2N1671B	A	2N2420A	B	2N3481	A	2N4949	B	MU4893	C
2N492A	A	2N1671C	A	2N2420B	B	2N3482	A	2N5431	B	MU4894	C
2N492B	A	2N2160	A	2N2421	B						

TABLE A

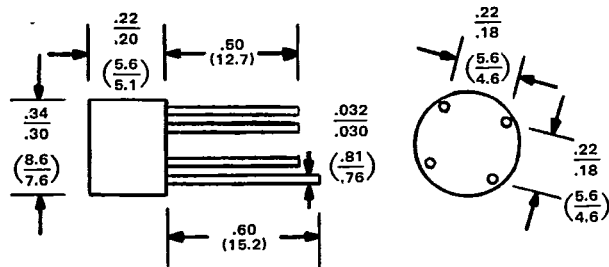
UNIUNCTION TRANSISTORS

TO-5 CASE

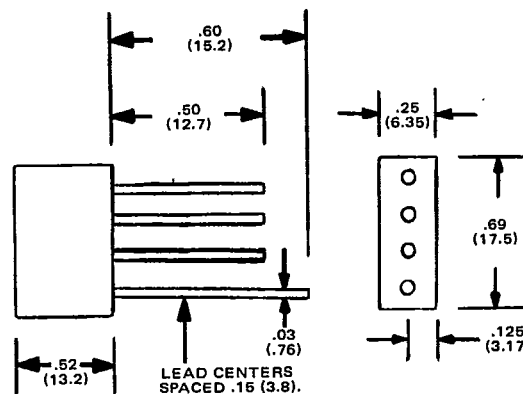
TYPE	INTRINSIC STANDOFF RATIO η		INTERBASE RESISTANCE r_{BB}		PEAK-POINT CURRENT I_P	EMITTER REV. CURRENT $I_{EB20 @ V_{B2E}}$		VALLEY-POINT CURRENT I_V	BASE 1 PEAK VOLTAGE V_{OB1}	CASE
	MIN.	MAX.	MIN.	MAX.	MAX.	MAX.		MIN.	MIN.	
			k Ω	k Ω	μA	μA	V	mA	V	
2N489	0.51	0.62	4.7	6.8	12	2.0	60	8.0	—	
2N489A	0.51	0.62	4.7	6.8	12	2.0	60	8.0	3.0	
2N489B	0.51	0.62	4.7	6.8	6.0	0.2	30	8.0	3.0	
2N490	0.51	0.62	6.2	9.1	12	2.0	60	8.0	—	
2N490A	0.51	0.62	6.2	9.1	12	2.0	60	8.0	3.0	
2N490B	0.51	0.62	6.2	9.1	6.0	0.2	30	8.0	3.0	
2N490C	0.51	0.62	6.2	9.1	2.0	0.02	30	8.0	3.0	
2N491	0.56	0.68	4.7	6.8	12	2.0	60	8.0	—	
2N491A	0.56	0.68	4.7	6.8	12	2.0	60	8.0	3.0	
2N491B	0.56	0.68	4.7	6.8	6.0	0.2	30	8.0	3.0	
2N492	0.56	0.68	6.2	9.1	12	2.0	60	8.0	—	
2N492A	0.56	0.68	6.2	9.1	12	2.0	60	8.0	3.0	
2N492B	0.56	0.68	6.2	9.1	6.0	0.2	30	8.0	3.0	
2N492C	0.56	0.68	6.2	9.1	2.0	0.02	30	8.0	3.0	
2N493	0.62	0.75	4.7	6.8	12	2.0	60	8.0	—	
2N493A	0.62	0.75	4.7	6.8	12	2.0	60	8.0	3.0	
2N493B	0.62	0.75	4.7	6.8	6.0	0.2	30	8.0	3.0	
2N494	0.62	0.75	6.2	9.1	12	2.0	60	8.0	—	
2N494A	0.62	0.75	6.2	9.1	12	2.0	60	8.0	3.0	
2N494B	0.62	0.75	6.2	9.1	6	0.2	30	8.0	3.0	
2N494C	0.62	0.75	6.2	9.1	2.0	0.02	30	8.0	3.0	
2N1671	0.47	0.62	4.7	9.1	25	12	30	8.0	—	
2N1671A	0.47	0.62	4.7	9.1	25	12	30	8.0	3.0	
2N1671B	0.47	0.62	4.7	9.1	6.0	0.2	30	8.0	3.0	
2N1671C	0.47	0.62	4.7	9.1	2.0	0.02	30	8.0	3.0	
2N2160	0.47	0.80	4.0	12	25	12	30	8.0	3.0	
2N3479	0.47	0.62	4.7	9.1	20	12	30	4.0	3.0	
2N3480	0.56	0.75	4.7	9.1	20	12	30	4.0	3.0	
2N3481	0.70	0.85	4.7	9.1	20	12	30	4.0	3.0	
2N3482	0.51	0.62	4.7	6.8	2.0	0.02	30	4.0	4.0	
2N3483	0.60	0.72	4.7	9.1	5.0	1.0	30	4.0	4.0	
2N3484	0.70	0.85	6.2	9.1	5.0	0.2	30	4.0	6.0	

CASE OUTLINE DRAWINGS

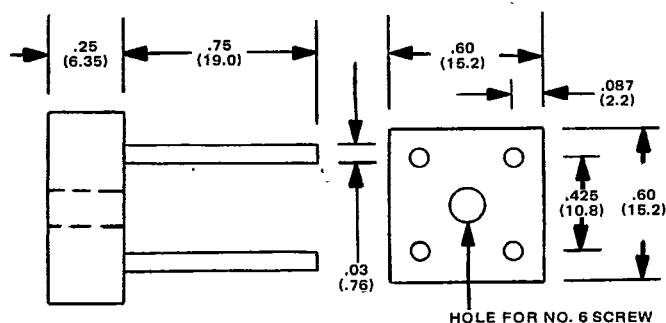
D



CASE A

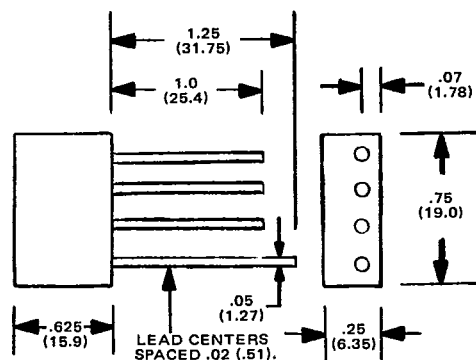
CBR1 Series
CBR2 Series

CASE B

CBR1-L Series
CBR2-L Series

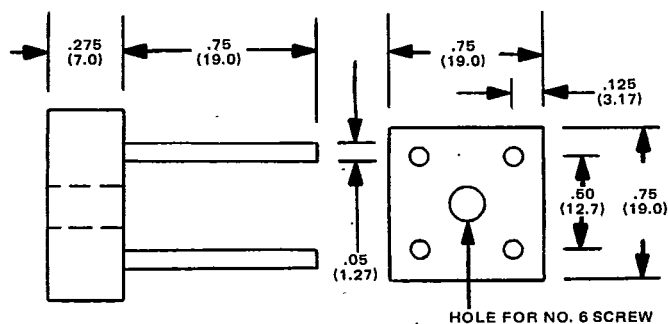
CASE C

CBR3-P Series



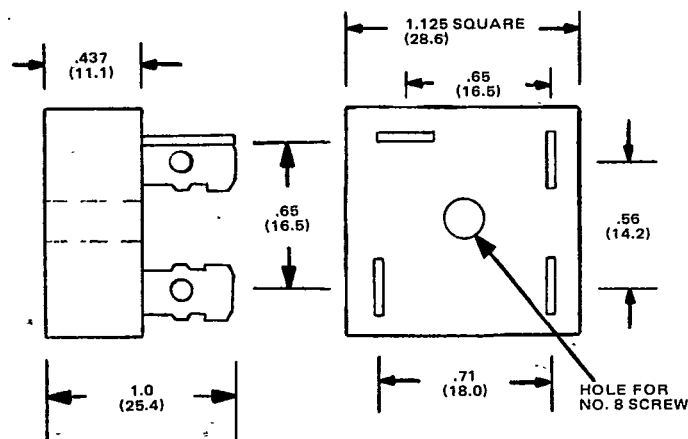
CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

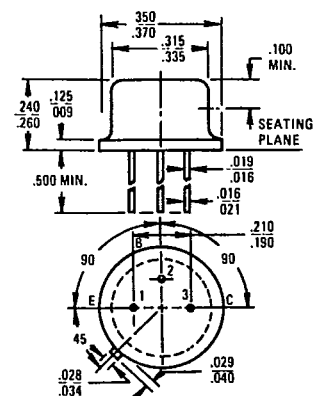
CBR10 Series, CBR25 Series
CBR12 Series, CBR30 Series

All Dimensions in Inches (Millimeters)

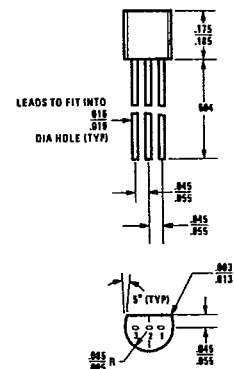
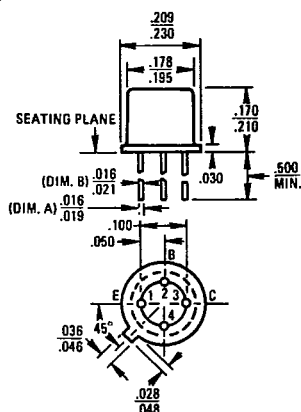
Drawings Not To Scale

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TO-39



TO-92

**TO-106**