

**TABLE B** **UNIJUNCTION TRANSISTORS** **TO-18 CASE**  
 CENTRAL SEMICONDUCTOR 61 DE 1989963 0000237 9 7-37-21

TYPE	INTRINSIC STANDOFF RATIO $\eta$		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 $\Omega$	k $\Omega$	$\mu A$	$\mu A$	V	mA	V	
2N2417	0.51	0.62	4.7	6.8	12	2.0	60	8.0	—	
2N2417A	0.51	0.62	4.7	6.8	12	2.0	60	8.0	3.0	
2N2417B	0.51	0.62	4.7	6.8	6.0	0.2	30	8.0	3.0	
2N2418	0.51	0.62	6.2	9.1	12	2.0	60	8.0	—	
2N2418A	0.51	0.62	6.2	9.1	12	2.0	60	8.0	3.0	
2N2418B	0.51	0.62	6.2	9.1	6.0	0.2	30	8.0	3.0	
2N2419	0.56	0.68	4.7	6.8	12	2.0	60	8.0	—	
2N2419A	0.56	0.68	4.7	6.8	12	2.0	60	8.0	3.0	
2N2419B	0.56	0.68	4.7	6.8	6.0	0.2	30	8.0	3.0	
2N2420	0.56	0.68	6.2	9.1	12	2.0	60	8.0	—	
2N2420A	0.56	0.68	6.2	9.1	12	2.0	60	8.0	3.0	
2N2420B	0.56	0.68	6.2	9.1	6.0	0.2	30	8.0	3.0	
2N2421	0.62	0.75	4.7	6.8	12	2.0	60	8.0	—	
2N2421A	0.62	0.75	4.7	6.8	12	2.0	60	8.0	3.0	
2N2421B	0.62	0.75	4.7	6.8	6.0	0.2	30	8.0	3.0	
2N2422	0.62	0.75	6.2	9.1	12	2.0	60	8.0	—	
2N2422A	0.62	0.75	6.2	9.1	12	2.0	60	8.0	3.0	
2N2422B	0.62	0.75	6.2	9.1	6.0	0.2	30	8.0	3.0	
2N2646	0.56	0.75	4.7	9.1	5.0	12	30	4.0	3.0	
2N2647	0.68	0.82	4.7	9.1	2.0	0.2	30	8.0	6.0	
2N2840	0.62*	—	4.7	9.1	10	1.0	30	.20	—	
2N3980	0.68	0.82	4.0	8.0	2.0	0.01	30	1.0	6.0	
2N4851	0.56	0.75	4.7	9.1	2.0	0.1	30	2.0	3.0	
2N4852	0.70	0.85	4.7	9.1	2.0	0.1	30	4.0	5.0	
2N4853	0.70	0.85	4.7	9.1	0.4	0.05	30	6.0	6.0	
2N4947	0.51	0.69	4.0	9.1	2.0	0.01	30	4.0	3.0	
2N4948	0.55	0.82	4.0	12	2.0	0.01	30	2.0	6.0	
2N4949	0.74	0.86	4.0	12	1.0	0.01	30	2.0	3.0	
2N5431	0.72	0.80	6.0	8.5	0.4	0.01	30	2.0	1.0	
MU20	0.50	0.85	4.0	10	5.0	1.0	30	1.0	3.0	
MU2646M	0.56	0.75	4.7	9.1	5.0	12	30	2.0	3.0	



\*Typical Value

**TABLE C** **UNIJUNCTION TRANSISTORS** **TO-92 CASE**

TYPE	INTRINSIC STANDOFF RATIO $\eta$		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 $\Omega$	k $\Omega$	$\mu A$	$\mu A$	V	mA	V	
2N4870	0.56	0.75	4.0	9.1	5.0	1.0	30	2.0	3.0	
2N4871	0.70	0.85	4.0	9.1	5.0	1.0	30	4.0	5.0	
MU10	0.50	0.85	4.0	10	5.0	1.0	30	1.0	3.0	
MU2646	0.56	0.75	4.7	9.1	5.0	12	30	4.0	3.0	
MU4891	0.55	0.82	4.0	9.1	5.0	0.01	30	2.0	3.0	
MU4892	0.51	0.69	4.0	9.1	2.0	0.01	30	2.0	3.0	
MU4893	0.55	0.82	4.0	12	2.0	0.01	30	2.0	6.0	
MU4894	0.74	0.86	4.0	12	1.0	0.01	30	2.0	3.0	



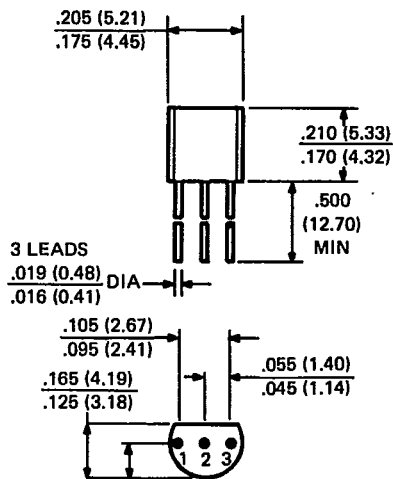
**TABLE D** **PROGRAMMABLE UNIJUNCTION TRANSISTORS** **TO-92 CASE**

TYPE	MAXIMUM RATINGS		GATE TO ANODE LEAKAGE CURRENT $I_{GAO @ 40v}$	PEAK CURRENT $I_p$		VALLEY CURRENT $I_v$		CASE
	GATE TO ANODE REVERSE VOLTAGE $V_{GAR}$	DC ANODE CURRENT $I_T$		$R_G = 10k\Omega$	$R_G = 1.0M\Omega$	$R_G = 10k\Omega$	$R_G = 1.0M\Omega$	
			MAX.	MAX.	MAX.	MIN.	MAX.	
	V	mA	nA	$\mu A$	$\mu A$	$\mu A$	$\mu A$	
2N6027	40	150	10	5.0	2.0	70	50	
2N6028	40	150	10	1.0	0.15	25	25	
A7T6027	40	150	10	5.0	2.0	70	50	
A7T6028	40	150	10	1.0	0.15	25	25	



3

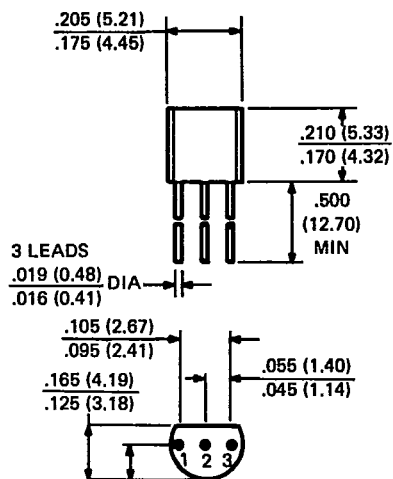
**CASE OUTLINE DRAWINGS**



**LEAD CODE:**

- 1. BASE 1
- 2. EMITTER
- 3. BASE 2

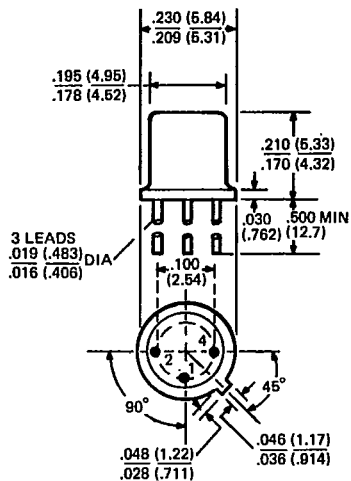
**TO-92 (UJT)**



**LEAD CODE:**

- 1. ANODE (A)
- 2. GATE (G)
- 3. CATHODE (K)

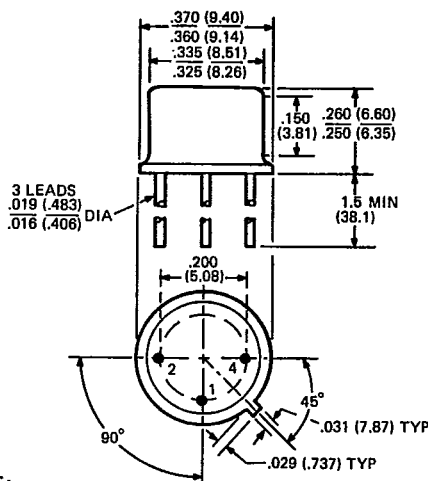
**TO-92 (PUT)**



**LEAD CODE:**

- 1. EMITTER
- 2. BASE 1
- 4. BASE 2

**TO-18\***



**LEAD CODE:**

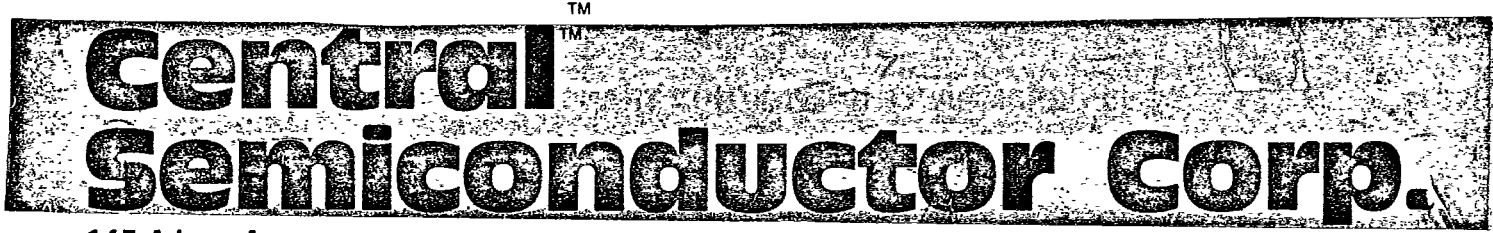
- 1. EMITTER
- 2. BASE 1
- 4. BASE 2

**TO-5\***

DIMENSIONS IN INCHES (MILLIMETERS)

DRAWINGS NOT TO SCALE.

\*Conforms to JEDEC outline except for lead configuration.

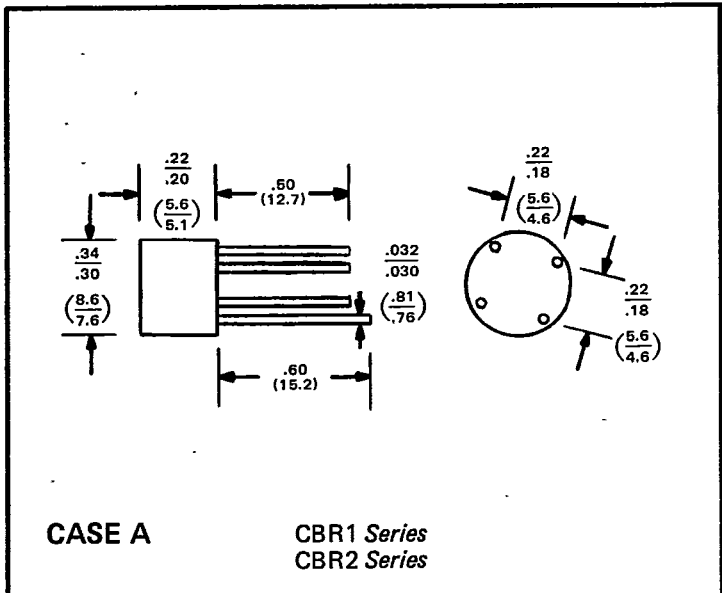


145 Adams Avenue  
 Hauppauge, NY 11788  
 Tel: (516) 435-1110  
 TWX: (510) 224-6493

MANUFACTURERS OF DISCRETE SEMICONDUCTORS

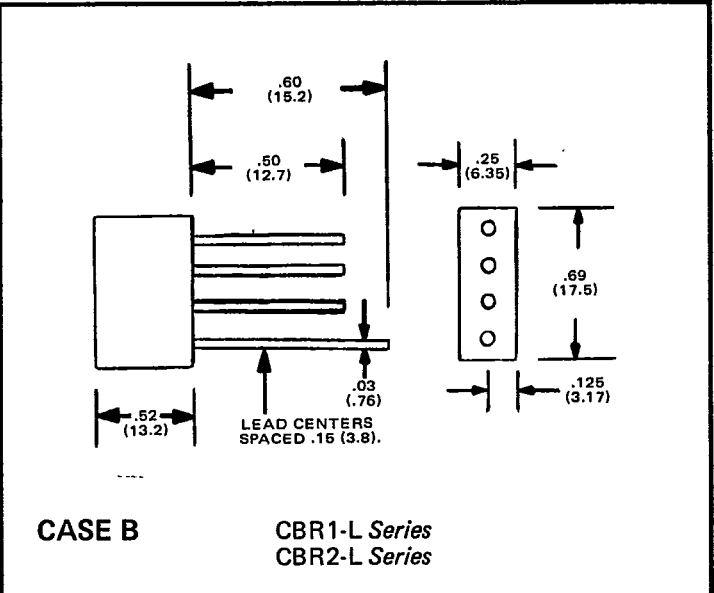
# CASE OUTLINE DRAWINGS

D



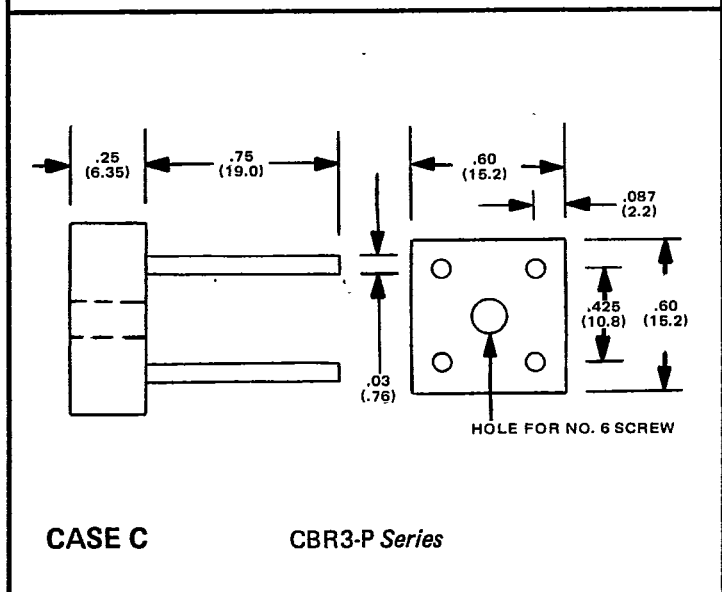
CASE A

CBR1 Series  
CBR2 Series



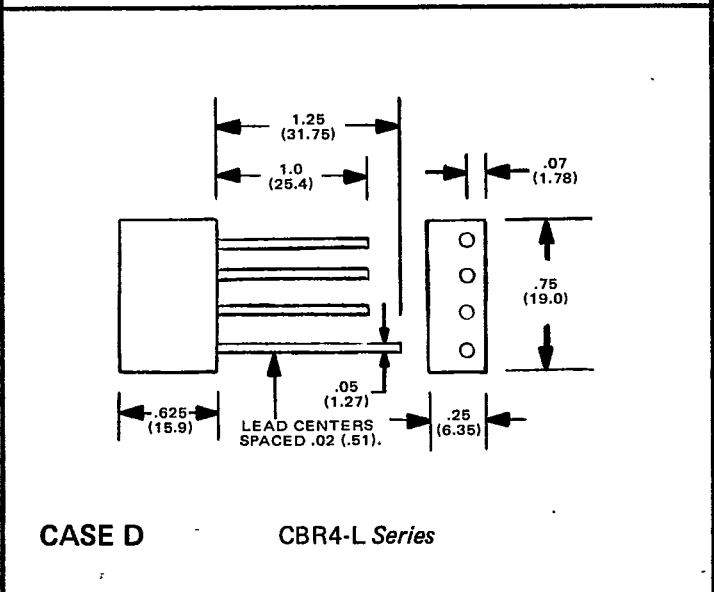
CASE B

CBR1-L Series  
CBR2-L Series



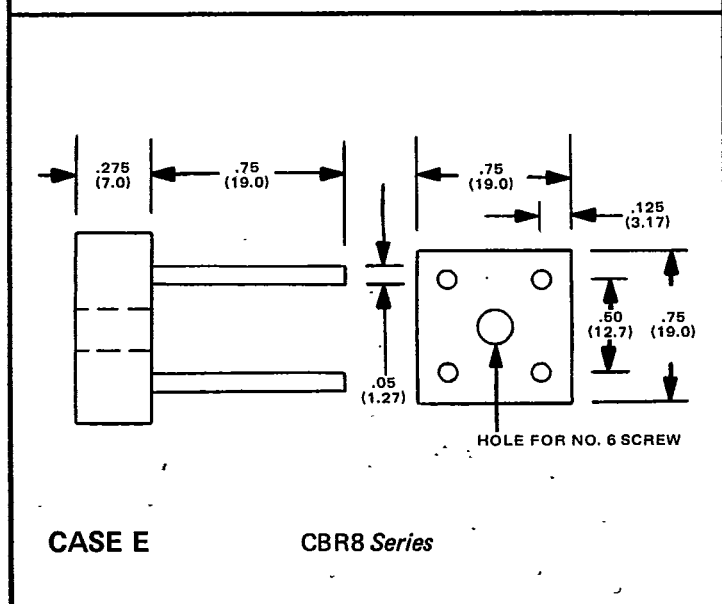
CASE C

CBR3-P Series



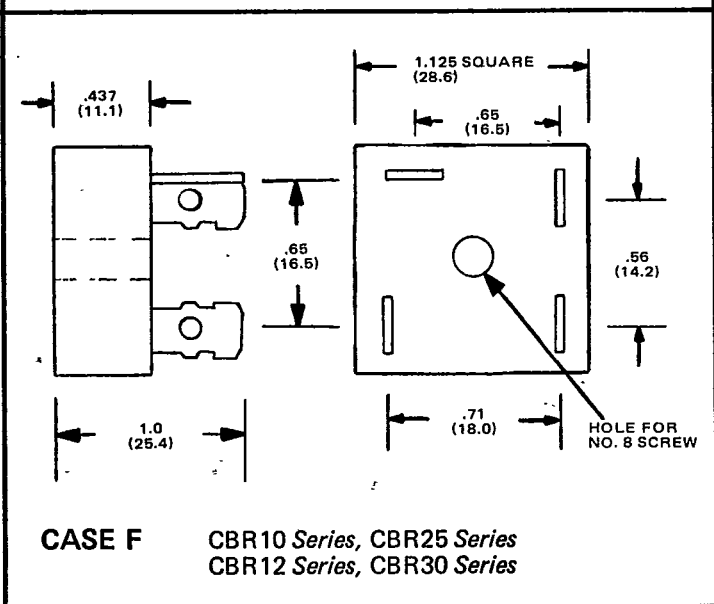
CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

CBR10 Series, CBR25 Series  
CBR12 Series, CBR30 Series

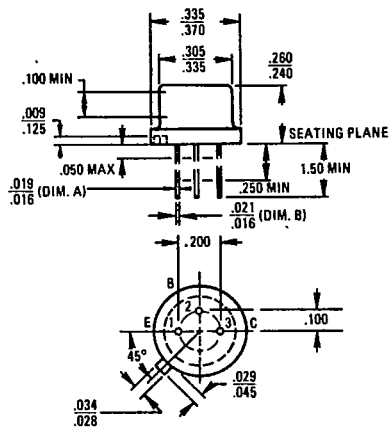
All Dimensions in Inches (Millimeters)

Drawings Not To Scale

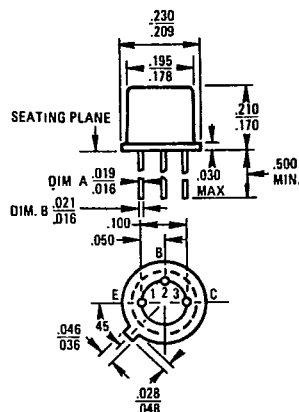
f

MECHANICAL OUTLINE DRAWINGS

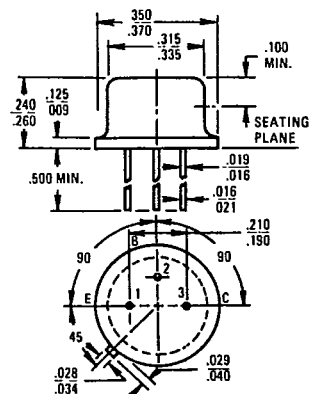
TO-5



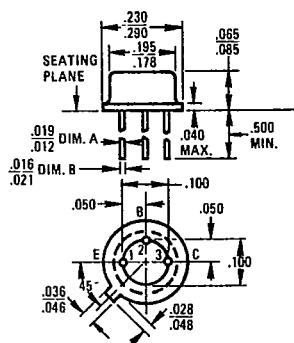
TO-18



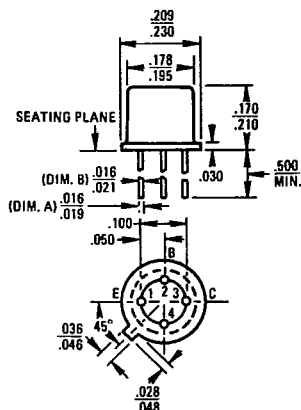
TO-39



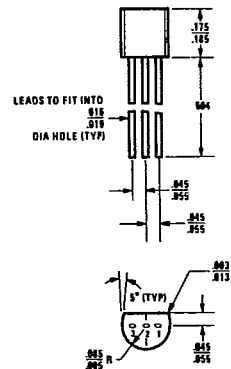
TO-46



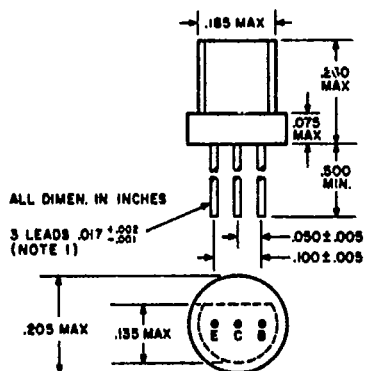
TO-72



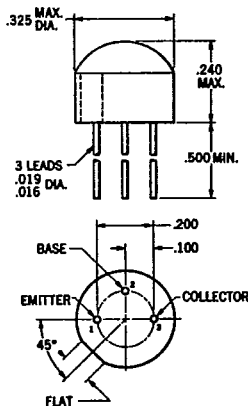
TO-92



TO-98



TO-105



TO-106

