



**ELECTRONICS**

# **SEMICONDUCTOR PRODUCTS**

MARCH 1966





## PNP TRANSISTORS/Silicon, Epitaxial Planar

### ELECTRICAL CHARACTERISTICS

TYPE	Package†	$h_{FE}$ @ 10 $\mu$ A		$h_{FE}$ -55°C 10 $\mu$ A Min.	$h_{FE}$ 10 mA Max.	$BV_{CBO}$ Volt Min.	$BV_{EBO}$ Volt Min.	$V_{CE\text{ sust}}$ Volt Min.	$V_{CE\text{ sat}}$ Volt Max.	$V_{BE\text{ sat}}$ Volt Max.	$I_{CBO}$ nA Max.	$C_{OB}$ pf Max.	NF db Max.
<b>UC1100</b>	†TO-46	<b>200</b>	<b>500</b>	<b>30</b>	<b>800</b>	<b>45</b>	<b>6</b>	<b>45</b>	<b>.5</b>	<b>.9</b>	<b>.5</b>	<b>6</b>	<b>2</b>
2N2604	†TO-46	40	120	10	350	60	6	45	.5	.9	10.0	6	4
2N2605	†TO-46	100	300	20	600	60	6	45	.5	.9	10.0	6	3
2N2605A	†TO-46	150	300	30	600	60	6	45	.25	.9	2.0	6	2

## DUAL PNP TRANSISTORS/Silicon, Epitaxial Planar

### ELECTRICAL CHARACTERISTICS

TYPE	$\Delta V_{BE}$ $\mu$ V/°C Max.	Package	$BV_{CBO}$ Volt Min.	$I_{CBO}$ Max. nA	$h_{FE}$ match %	$V_{BE\ 1-2}$ mV Max.	$h_{FE}$ @ 10 $\mu$ A Min.	$h_{FE}$ @ 10 $\mu$ A Max.	$h_{FE}$ @ 1 mA Min.	$f_t$ MHz Min.	NF db Max.	$V_{CE\text{ sust}}$ Volt Min.	$C_{OB}$ pf Max.
2N2802	10	TO-78	25	10	10	5	15	—	20	60	4	20	8
2N2805	10	TO-78	25	10	10	5	30	—	40	60	4	20	8
2N3347	10	TO-78	60	10	10	5	40	300	60	60	4	45	6
2N3350	10	TO-78	60	10	10	5	100	300	150	60	4	45	6
2N2803	20	TO-78	25	10	20	10	15	—	20	60	4	20	8
2N2806	20	TO-78	25	10	20	10	30	—	40	60	4	20	8
2N3348	20	TO-78	60	10	20	10	40	300	60	60	4	45	6
2N3351	20	TO-78	60	10	20	10	100	300	150	60	4	45	6
2N3349	40	TO-78	60	10	40	20	40	300	60	60	4	45	6
2N3352	40	TO-78	60	10	40	20	100	300	150	60	4	45	6
2N2804	—	TO-78	25	10	—	—	30	—	20	60	4	20	6
2N2807	—	TO-78	25	10	—	—	15	—	40	60	4	20	6

## NPN TRANSISTORS/Silicon, Planar

### ELECTRICAL CHARACTERISTICS

TYPE	Package†	$h_{FE}$ @ 10 $\mu$ A		$h_{FE}$ -55°C 10 $\mu$ A Min.	$h_{FE}$ Max. 10 mA	$BV_{CBO}$ Volt Min.	$BV_{EBO}$ Volt Min.	$V_{CE\text{ sust}}$ Volt Min.	$V_{CE\text{ sat}}$ Volt Max.	$V_{BE\text{ sat}}$ Volt Max.	$I_{CBO}$ nA Max.	$C_{OB}$ Max. pf	NF db Max.
<b>UC900</b>	†TO-18	<b>400</b>	<b>1000</b>	<b>80</b>	<b>1200</b>	<b>45</b>	<b>7</b>	<b>45</b>	<b>0.5</b>	<b>0.9</b>	<b>.25</b>	<b>7</b>	<b>3</b>
JAN 2N929	TO-18	40	120	10	350	60	6	45	1.0	1.0	10	8	3
2N929	†TO-18	40	120	10	350	60	6	45	1.0	1.0	10	8	4
2N929A	†TO-18	40	120	15	350	60	6	45	0.5	0.9	2	6	4
JAN 2N930	TO-18	100	300	20	600	60	6	45	1.0	1.0	10	8	3
2N930	†TO-18	100	300	20	600	60	6	45	1.0	1.0	10	8	3
2N930A	†TO-18	100	300	30	600	60	6	45	0.5	0.9	2	6	3
2N2483	†TO-18	40	120	10	500	60	6	60	.35	.7	10	6	3
2N2484	†TO-18	100	500	20	800	60	6	60	.35	.7	10	6	3
2N2509	†TO-18	25	—	—	—	125	7	80	1.0	.9	5	6	7
2N2510	†TO-18	75	—	25	500	100	7	65	1.0	.9	5	6	4
2N2511	†TO-18	120	—	40	750	80	7	50	1.0	.9	5	6	4
2N2586	†TO-18	120	360	40	600	60	6	45	.5	.9	2	7	2
2N3117	†TO-18	250	500	50	—	60	6	60	.35	.7	10	4.5	1

† Available in Union Carbide Micro-Package CC-3.





## DUAL NPN TRANSISTORS/Silicon, Planar

### ELECTRICAL CHARACTERISTICS

TYPE	$\Delta V_{BE}$ $\mu V/^{\circ}C$	Package	$V_{CBO}$	$I_{CBO}$ nA	$h_{FE}$ match %	$V_{BE1-2}$	$h_{FE}$ @ 10 $\mu A$		$f_t$ MHz	$h_{FE}$ @ -55 $^{\circ}C$ 10 $\mu A$ Max.	NF in db $e_n \mu V/\sqrt{Hz}$ Max.	$V_{CE \text{ sust}}$ Min.	$C_{OB}$ pf Max.
	Max.		Volts Min.			mV Max.	Min.	*1 mA Max.					
2N4042	3	TO-70	60	.1	10	3	200	600	200	75	2	60	.8
2N4044	3	TO-78	60	.1	10	3	200	600	200	75	2	60	.8
2N4099	5	TO-70	55	.1	15	5	150	600	150	50	3	55	.8
2N4100	5	TO-78	55	.1	15	5	150	600	150	50	3	55	.8
2N3680	5	TO-78	60	10	10	3	150	600	60	45	3	50	6
2N2453A	5	TO-78	80	5	10	3	150*	600*	60	40	4	50	4
2N4043	10	TO-70	45	.1	20	5	80	—	150	30	3	45	.8
2N4045	10	TO-78	45	.1	20	5	80	—	150	30	3	45	.8
2N3941	10	TO-78	60	.25	10	3	400	1200	200	75	.007*	45	6
2N3943	10	TO-71	60	.25	10	3	400	1200	200	75	.007*	45	6
2N2453	10	TO-78	60	5	10	3	150*	600*	60	40	7	30	8
2N2639	10	TO-78	45	10	10	5	50	300	—	10	4	45	8
2N2642	10	TO-78	45	10	10	5	100	300	—	20	4	45	8
2N2903A	10	TO-78	60	10	10	5	125*	625*	60	25	7	30	8
2N2915	10	TO-78	45	10	10	5	60	240	60	15	4	45	6
2N2916	10	TO-78	45	10	10	5	150	600	60	30	3	45	6
2N2919	10	TO-78	60	2	10	5	60	240	60	15	4	60	6
2N2920	10	TO-78	60	2	10	5	150	600	60	40	3	60	6
2N2974	10	TO-71	45	10	10	5	60	240	60	15	4	45	6
2N2975	10	TO-71	45	10	10	5	150	600	60	30	3	45	6
2N2978	10	TO-71	60	2	10	5	60	240	60	15	4	60	6
2N2979	10	TO-71	60	2	10	5	150	600	60	40	3	60	6
2N3942	20	TO-78	60	.25	20	10	400	1200	200	75	.007*	45	6
2N3944	20	TO-71	60	.25	20	10	400	1200	200	75	.007*	45	6
2N2640	20	TO-78	45	10	20	10	50	300	—	10	4	45	8
2N2643	20	TO-78	45	10	20	10	100	300	—	20	4	45	8
2N2903	20	TO-78	60	10	20	10	125*	625*	60	25	7	30	8
2N2917	20	TO-78	45	10	20	10	60	240	60	15	4	45	6
2N2918	20	TO-78	45	10	20	10	150	600	60	30	3	45	6
2N2976	20	TO-71	45	10	20	10	60	240	60	15	4	45	6
2N2977	20	TO-71	60	10	20	10	150	600	60	30	3	45	6
2N2641	—	TO-78	45	10	—	—	50	300	—	10	4	45	8
2N2644	—	TO-78	45	10	—	—	100	300	—	20	4	45	8
2N2913	—	TO-78	45	10	—	—	60	240	60	15	4	45	6
2N2914	—	TO-78	45	10	—	—	150	600	60	30	3	45	6
2N2972	—	TO-71	45	10	—	—	60	240	60	15	4	45	6
2N2973	—	TO-71	45	10	—	—	150	600	60	30	3	45	6

## MILITARY TRANSISTORS/Silicon, Planar

Type	Military Specifications	Device Type
JAN 2N929	MIL-S-19500/253A	NPN Transistor
JAN 2N930	MIL-S-19500/253A	NPN Transistor
JAN 2N2607	MIL-S-19500/294	P-Channel FET
JAN 2N2608	MIL-S-19500/295	P-Channel FET





ELECTRONICS

FIELD EFFECT TRANSISTORS/Silicon, Epitaxial Planar

General Purpose

ELECTRICAL CHARACTERISTICS

TYPE	Channel	Package	BV <sub>DSS</sub> *BV <sub>DGO</sub> Volts Min.	I <sub>GSS</sub> nA Max.	I <sub>DSS</sub> mA		g <sub>m</sub> μmhos		V <sub>p</sub> Volts		C <sub>ISS</sub> pf Max.	C <sub>RSS</sub> pf Max.	*e <sub>n</sub> in μV/√	NF in db in Max.
					Min.	Max.	Min.	Max.	Min.	Max.				
2N3684	N	†TO-72	50	0.1	2.5	7.5	2000	3000	2.0	5.0	4.0	1.2	*0.15	
2N3685	N	†TO-72	50	0.1	1.0	3.5	1500	2500	1.0	3.5	4.0	1.2	*0.15	
2N3686	N	†TO-72	50	0.1	0.4	1.2	1000	2000	0.6	2.0	4.0	1.2	*0.15	
2N3687	N	†TO-72	50	0.1	0.1	0.5	500	1500	0.3	1.2	4.0	1.2	*0.15	
UC-20	N	†TO-72	30	0.01	0.4	2.0	300		2.0	5.0	2.0			
UC-21	N	†TO-72	30	0.01	0.12	0.6	200		1.0	2.5	2.0			
UC-22	N	CC-3	30	0.01	0.4	2.0	300		2.0	5.0	1.3			
UC-23	N	CC-3	30	0.01	0.12	0.6	200		1.0	2.5	1.3			
UC-200	N	†TO-72	50	0.1	10	30	6000		6.0	7.0			0.5	
UC-210	N	†TO-72	50	0.1	4.0	12	4500		4.0	7.0			0.5	
UC-220	N	†TO-72	50	0.1	1.0	5.0	3000		2.5	7.0			0.5	
UC-240	N	†TO-18	50	0.1	1.0	10	1200		5.0	18			*0.02	
UC-250	N	TO-18	30	1	50	150	20000		5.0	10	25			
UC-251	N	TO-18	30	1	7.5	75	12000		1.0	6.0	25			
2N3066	N	TO-18	*50	1.0	0.8	4.0	400	1000		10	10		3	
2N3067	N	TO-18	*50	1.0	0.2	1.0	300	1000		5.0	10		3	
2N3068	N	TO-18	*50	1.0	0.05	0.25	200	1000		2.5	10		3	
2N3069	N	TO-18	*50	1.0	2.0	10	1000	2500		10	15		4	
2N3070	N	TO-18	*50	1.0	0.5	2.5	750	2500		5.0	15		4	
2N3071	N	TO-18	*50	1.0	0.1	0.6	500	2500		2.5	15		4	
2N3365	N	TO-18	*40	5	0.8	4.0	400	2000		12	15			
2N3366	N	TO-18	*40	5	0.2	1.0	250	1000		7.0	15			
2N3367	N	TO-18	*40	5	0.05	0.25	100	1000		2.5	15			
2N3368	N	TO-18	*40	5	2.0	12	1000	4000		12	20			
2N3369	N	TO-18	*40	5	0.5	2.5	600	2500		7.0	20			
2N3370	N	TO-18	*40	5	0.1	0.6	300	2500		3.5	20			
2N3436	N	TO-72	*50	0.5	3.0	15	2500	10000		10	18		2	
2N3437	N	TO-72	*50	0.5	0.8	4.0	1500	6000		5.0	18		2	
2N3438	N	TO-72	*50	0.5	0.2	1.0	800	4500		2.5	18		2	
2N3452	N	TO-72	*50	0.1	0.8	4.0	200	1200		10	6		2	
2N3453	N	TO-72	*50	0.1	0.2	1.0	150	900		5.0	6		2	
2N3454	N	TO-72	*50	0.1	0.05	0.25	100	600		2.5	6		2	
2N3455	N	TO-72	*50	0.04	0.8	4.0	400	1200		10	5		1	
2N3456	N	TO-72	*50	0.04	0.2	1.0	300	900		5.0	5		1	
2N3457	N	TO-72	*50	0.04	0.05	0.25	150	600		2.5	5		1	
2N3458	N	TO-18	*50	0.25	3.0	15	2500	10000		8.0	18		1	
2N3459	N	TO-18	*50	0.25	0.8	4.0	1500	6000		4.0	18		1	
2N3460	N	TO-18	*50	0.25	0.2	1.0	800	4500		2.0	18		1	
2N3821	N	†TO-72	50	0.1	1.0	2.5	1500	4500		4.0	6	3	*.2	
2N3822	N	†TO-72	50	0.1	0.5	10.0	3000	6500		6.0	6	3	*.2	
2N3695	P	†TO-72	30	0.1	1.25	3.75	1000	1750	2.0	5.0	5.0	1.2	*.2	
2N3696	P	†TO-72	30	0.1	0.5	1.5	750	1250	1.0	3.5	5.0	1.2	*.2	
2N3697	P	†TO-72	30	0.1	0.2	0.6	500	1000	0.6	2.0	5.0	1.2	*.2	
2N3698	P	†TO-72	30	0.1	0.05	0.25	250	750	0.3	1.2	5.0	1.2	*.2	
UC-40	P	†TO-72	30	0.01	0.2	1.0	150		2.0	5.0	2.5			
UC-41	P	†TO-72	30	0.01	0.06	0.3	100		1.0	2.5	2.5			
UC-42	P	CC-3	30	0.01	0.2	1.0	150		2.0	5.0	1.4			
UC-43	P	CC-3	30	0.01	0.06	0.3	100		1.0	2.5	1.4			
UC-400	P	†TO-72	30	0.1	5.0	15	3000		6.0	8			0.5	
UC-410	P	†TO-72	30	0.1	2.0	6.0	2250		4.0	8			0.5	
UC-420	P	†TO-72	30	0.1	0.5	2.5	1500		2.5	8			0.5	

† Available in Union Carbide Micro-Package CC-3.



## FIELD EFFECT TRANSISTORS (Cont.)

### General Purpose (Cont.)

#### ELECTRICAL CHARACTERISTICS

TYPE	Channel	Package	$BV_{DSS}$	$I_{DSS}$	$I_{DSS}$ mA		$g_m$ $\mu$ mhos		$V_p$ Volts		$C_{ISS}$ pf Max.	$C_{RSS}$ pf Max.	$e_n$ $\mu$ V/ $\sqrt{Hz}$ Max.	NF in db
			$BV_{DSS}$ Min.		Min.	Max.	Min.	Max.	Min.	Max.				
<b>UC-450</b>	<b>P</b>	<b>TO-18</b>	<b>25</b>	<b>.25</b>	<b>25</b>	<b>75</b>	<b>10000</b>		<b>5.0</b>	<b>10</b>	<b>25</b>			
<b>UC-451</b>	<b>P</b>	<b>TO-18</b>	<b>25</b>	<b>.25</b>	<b>3.75</b>	<b>37.5</b>	<b>6000</b>		<b>1.0</b>	<b>6</b>	<b>25</b>			
2N2386	P	TO-5	*20	10	0.9	9	1000			8.0	50			2
2N2497	P	TO-5	20	10	1.0	3.0	1000	2000		5.0	32			3
2N2498	P	TO-5	20	10	2.0	6.0	1500	3000		6.0	32			3
2N2499	P	TO-5	20	10	5.0	15	2000	4000		8.0	32			4
2N2500	P	TO-5	20	10	1	6	1000	2200		6.0	32			1
2N2606	P	TO-18	30	1.0	0.1	0.5	110		1.0	4.0	6			3
2N2607	P	TO-18	30	3.0	0.3	1.5	330		1.0	4.0	10			3
JAN2N2607	P	TO-18	30	3.0	0.3	1.5	330		1.0	4.0	10			3
2N2608	P	TO-18	30	10	0.9	4.5	1000		1.0	4.0	17			3
JAN2N2608	P	TO-18	30	10	0.9	4.5	1000		1.0	4.0	17			3
2N2609	P	TO-18	30	30	2.0	10	2500		1.0	4.0	25			3
2N2841	P	TO-18	30	1.0	.025	.125	60			1.7	6			3
2N2842	P	TO-18	30	3.0	.065	.325	180			1.7	10			3
2N2843	P	TO-18	30	10	.200	1.0	540			1.7	17			3
2N2844	P	TO-18	30	30	.44	2.2	1400			1.7	25			3
2N3329	P	TO-72	20	10	1.0	3.0	1000	2000		5.0	20			3
2N3330	P	TO-72	20	10	2.0	6.0	1500	3000		6.0	20			3
2N3331	P	TO-72	20	10	4.0	15	2000	4000		8.0	20			4
2N3332	P	TO-72	20	10	1.0	6.0	1000	2200		6.0	20			1
2N3573	P	TO-72	25	0.6	.020	.100	100	300		2.0	6	2		*.15
2N3574	P	TO-72	25	0.6	.075	.375	200	600		2.0	6	2		*.15
2N3575	P	TO-72	25	0.6	.200	1.0	300	900		4.0	6	2		*.15
2N3909	P	TO-72	20	10	0.3	15	1000	5000		8.0	32	16		

#### Low Noise

<b>2N3684</b>	<b>N</b>	<b>†TO-72</b>	<b>50</b>	<b>0.1</b>	<b>2.5</b>	<b>7.5</b>	<b>2000</b>	<b>3000</b>	<b>2.0</b>	<b>5.0</b>	<b>4.0</b>	<b>1.2</b>	<b>*0.15</b>
<b>2N3685</b>	<b>N</b>	<b>†TO-72</b>	<b>50</b>	<b>0.1</b>	<b>1.0</b>	<b>3.5</b>	<b>1500</b>	<b>2500</b>	<b>1.0</b>	<b>3.5</b>	<b>4.0</b>	<b>1.2</b>	<b>*0.15</b>
<b>2N3686</b>	<b>N</b>	<b>†TO-72</b>	<b>50</b>	<b>0.1</b>	<b>0.4</b>	<b>1.2</b>	<b>1000</b>	<b>2000</b>	<b>0.6</b>	<b>2.0</b>	<b>4.0</b>	<b>1.2</b>	<b>*0.15</b>
<b>2N3687</b>	<b>N</b>	<b>†TO-72</b>	<b>50</b>	<b>0.1</b>	<b>0.1</b>	<b>0.5</b>	<b>500</b>	<b>1500</b>	<b>0.3</b>	<b>1.2</b>	<b>4.0</b>	<b>1.2</b>	<b>*0.15</b>
<b>UC-240</b>	<b>N</b>	<b>†TO-18</b>	<b>50</b>	<b>0.1</b>	<b>1.0</b>	<b>10</b>	<b>1200</b>			<b>5.0</b>	<b>18</b>		<b>*0.02</b>
<b>2N3695</b>	<b>P</b>	<b>†TO-72</b>	<b>30</b>	<b>0.1</b>	<b>1.25</b>	<b>3.75</b>	<b>1000</b>	<b>1750</b>	<b>2.0</b>	<b>5.0</b>	<b>5.0</b>	<b>1.2</b>	<b>*.2</b>
<b>2N3696</b>	<b>P</b>	<b>†TO-72</b>	<b>30</b>	<b>0.1</b>	<b>0.5</b>	<b>1.5</b>	<b>750</b>	<b>1250</b>	<b>1.0</b>	<b>3.5</b>	<b>5.0</b>	<b>1.2</b>	<b>*.2</b>
<b>2N3697</b>	<b>P</b>	<b>†TO-72</b>	<b>30</b>	<b>0.1</b>	<b>0.2</b>	<b>0.6</b>	<b>500</b>	<b>1000</b>	<b>0.6</b>	<b>2.0</b>	<b>5.0</b>	<b>1.2</b>	<b>*.2</b>
<b>2N3698</b>	<b>P</b>	<b>†TO-72</b>	<b>30</b>	<b>0.1</b>	<b>0.05</b>	<b>0.25</b>	<b>250</b>	<b>750</b>	<b>0.3</b>	<b>1.2</b>	<b>5.0</b>	<b>1.2</b>	<b>*.2</b>

#### Switching

TYPE	Channel	Package	$BV_{DSS}$	$I_{DSS}$	$I_{Doff}$	$I_{DSS}$ mA		$V_p$ Max. Volts	$C_{ISS}$ Max. pf	$C_{RSS}$ Max. pf	$R_{on}$ Max. Ohms	$T_{on}$ nsec	$T_{off}$ nsec
			Min. Volts			Max. nA	Max. nA						
2N3824	N	†TO-72	50	0.1	0.1			8	6	3	250		
2N3970	N	TO-18	40	0.25	0.25	50	150	10	25	6	30	20	30
2N3971	N	TO-18	40	0.25	0.25	25	75	5	25	6	60	30	60
2N3972	N	TO-18	40	0.25	0.25	5	30	3	25	6	100	80	100
UC201	N	†TO-72	50	0.1	0.1	15		8	7	4	125		
UC250	N	TO-18	30	1	1	50	150	10	25	6	30		
UC251	N	TO-18	30	1	1	7.5	75	6	25	6	75		
UC401	P	†TO-72	30	0.1	0.1	8		8	8	4	250		
UC450	P	TO-18	25	0.25	0.25	25	75	10	25	6	60		
UC451	P	TO-18	25	0.25	0.25	3.75	37.5	6	25	6	150		

† Available in Union Carbide Micro-Package CC-3.





## FIELD EFFECT TRANSISTORS (Cont.)

### Industrial

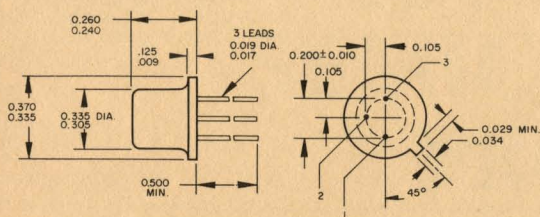
TYPE	Channel	Package	$BV_{GSS}$ * $BV_{GDO}$ Volts Min.	$I_{GSS}$ nA Max.	$I_{DSS}$ mA		$g_m$ $\mu$ mhos		$R_{on}$ Ohms Max.	$V_P$ Volts Max.	$C_{ISS}$ pf Max.	$C_{RSS}$ pf Max.	NF db Max.	Improved replace- ment for
					Min.	Max.	Min.	Max.						
UC701	N	TO-72	40	0.2	0.1	3	150	1500		6	3		4	
UC703	N	TO-72	40	0.5	0.1	10	500	5000	2000	6	6		2	
UC704	N	TO-72	40	0.5	0.2	24	1000	10000	1000	8	8		2	
UC705	N	TO-72	40	1	0.5	50	2000	20000	500	8	12		2	
UC707	N	TO-18	20	2	2.5	250	5000	50000	200	12	30			
UC714	N	TO-72	30	1	2	20	2000	6500	500	8	8	4	2	2N3819
UC750	N	TO-18	30	2	0.05		120			6	6			
UC751	N	TO-18	30	2	0.1		350			6	10			
UC752	N	TO-18	30	6	0.3		1000			6	17			
UC753	N	TO-18	30	10	0.9		2500			6	25			
2N2386	P	TO-5	*20	10	0.9	9	1000			8	50		2	
2N3909	P	TO-72	20	10	0.3	15	1000	5000		8	32	16		
UC801	P	TO-72	25	0.2	0.05	1.5	75	750		6	3		4	
UC803	P	TO-72	25	0.5	0.05	5	250	2500		6	6		2	
UC804	P	TO-72	25	0.5	0.1	12	500	5000	2000	8	8		2	
UC805	P	TO-72	25	1	0.3	25	1000	10000	1000	8	12		2	
UC807	P	TO-18	20	2	1	125	2500	25000	400	12	30			
UC814	P	TO-72	25	2	0.3	15	800	5000	1300	8	16	8	2	2N3820
UC850	P	TO-18	*20	2	0.1	1	110			6	6			U110
UC851	P	TO-18	*20	4	0.9	9	1000			6	17			U112
UC852	P	TO-18	25	2	0.025		60			6	6			U146
UC853	P	TO-18	25	4	0.065		180			6	10			U147
UC854	P	TO-18	25	15	0.2		540			6	17			U148
UC855	P	TO-18	25	50	0.44		1400			6	25			U149

### DUAL FIELD EFFECT TRANSISTORS N-CHANNEL

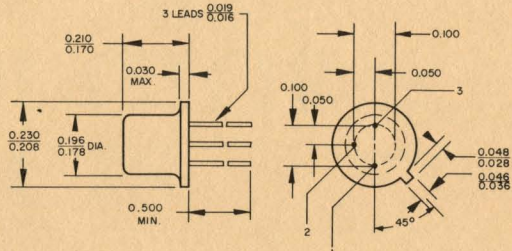
TYPE	$\Delta V_{GS}$ $\mu$ V/ $^{\circ}$ C Max.	Package	* $BV_{GSS}$ Volts Min.	$I_{GSS}$ pA Max.	$I_{DSS}$ mA		$g_m$ $\mu$ mhos Min.	$V_{GS1-2}$ mV Max.	$g_m$ match % Max.	$I_{DSS}$ match % Max.	$V_{GS(On)}$ Volts Max.	$C_{ISS}$ pf	NF db
					Min.	Max.							
2N3954	10	CO-71	50	100	.5	5.0	1000	5	3	5	4.0	4	0.5
2N3955	25	CO-71	50	100	.5	5.0	1000	10	5	5	4.0	4	0.5
2N3956	50	CO-71	50	100	.5	5.0	1000	15	5	5	4.0	4	0.5
2N3957	75	CO-71	50	100	.5	5.0	1000	20	10	10	4.0	4	0.5
2N3958	100	CO-71	50	100	.5	5.0	1000	25	15	15	4.0	4	0.5
UC-2130	10	CO-71	50	100	0.5	4.5	1000	10	5	5	5.0	4	0.5
UC-2132	20	CO-71	50	100	0.5	4.5	1000	20	5	5	5.0	4	0.5
UC-2134	50	CO-71	50	100	0.5	4.5	1000	30	10	10	5.0	4	0.5
UC-2136	100	CO-71	50	100	0.5	4.5	1000	50	10	10	5.0	4	0.5
UC-2138	200	CO-71	50	100	0.5	4.5	1000	100	20	20	5.0	4	0.5
UC-2139		CO-71	30	200	0.2	6.0	750				6.0	5	2.0
UC-2149		CO-71	30	200	0.5	15.0	1000				6.0	6	2.0
2N3921	10	TO-71	50	250	1.0	10	1500	5	5		2.7	18	2.0
2N3922	25	TO-71	50	250	1.0	10	1500	5	5		2.7	18	2.0
2N3934	10	TO-71	50	100	.25	1.3	300	5	5		2.7	7	2.0
2N3935	25	TO-71	50	100	.25	1.3	300	5	5		2.7	7	2.0
2N4082	10	TO-71	50	100	.25	1.3	300	15	5		2.7	7	2.0
2N4083	25	TO-71	50	100	.25	1.3	300	15	5		2.7	7	2.0
2N4084	10	TO-71	50	250	1.0	10	1500	15	5		2.7	18	2.0
2N4085	25	TO-71	50	250	1.0	10	1500	15	5		2.7	18	2.0



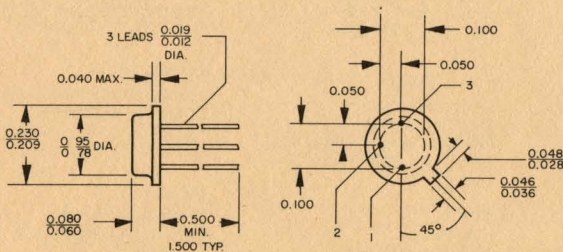
**PACKAGES**



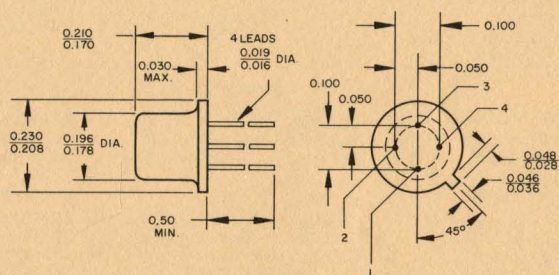
**TO-5**



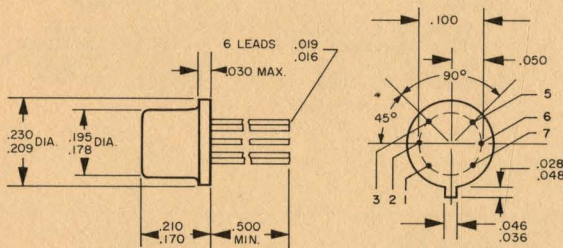
**TO-18**



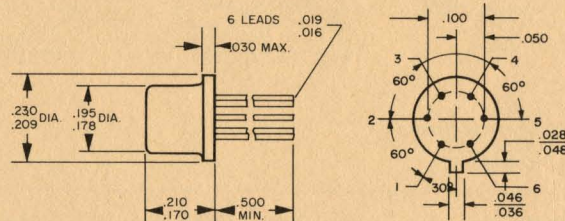
**TO-46**



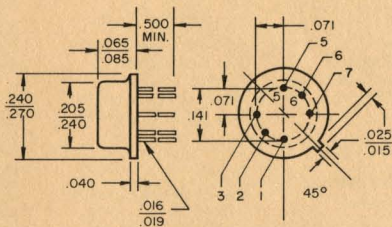
**TO-72**



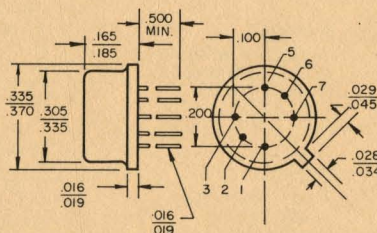
**TO-71**



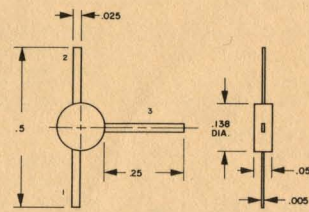
**CO-71**



**TO-70**



**TO-78**



**CC-3**

All dimensions are in inches (Bottom View)

DEVICE TYPE	HEADER																												
	TO-5/TO-18/TO-46			TO-72				CC-3			TO-70/TO-78						TO-71						CO-71						
	PIN	1	2	3	1	2	3	4	1	2	3	1	2	3	5	6	7	1	2	3	5	6	7	1	2	3	4	5	6
NPN/PNP		E	B	C	—	—	—	—	E	B	C	C	B	E	E	B	C	E	B	C	E	B	C	—	—	—	—	—	—
N-CHANNEL		S	D	G	S	D	G	Case	S	D	G	G	D	S	S	D	G	S	D	G	S	D	G	S	D	G	S	D	G
P-CHANNEL		S	G	D	S	G	D	Case	S	D	G	G	D	S	S	D	G	S	D	G	S	D	G	S	D	G	S	D	G





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