



TOLL FREE NUMBER 800-777-3960

multiple devices

dual transistors

Type	Polarity	Breakdown Voltages (volts)			$h_{FE} @ I_C$ $V_{CE} = 5.0V$			h_{FE-1}/h_{FE-2} $V_{CE} = 5.0V$		$V_{BE-1} - V_{BE-2}$		$\Delta(V_{BE-1} - V_{BE-2})$ $\Delta T = -55 \text{ to } +125^\circ C$		I_{CBO} Max. (nA)	Case Style
		V_{CB}	V_{CE}	V_{EB}	Min.	Max.	μA	Min.	$I_C (\mu A)$	Max. (mV)	$I_C (\mu A)$	Max. ($\mu V/^\circ C$)	$I_C (\mu A)$		
2N2060	NPN	100	60	7	30	90	—	0.9	—	5.0	—	10	—	—	TO-77
2N2060A	NPN	100	60	7	30	90	—	0.9	—	3.0	—	10	—	—	TO-77
2N2060B	NPN	100	60	7	30	90	—	—	—	1.5	—	5	—	—	TO-77
2N2223	NPN	100	—	—	25	150	—	—	—	15.0	—	25	—	—	TO-77
2N2223A	NPN	100	—	—	25	150	—	—	—	5.0	—	25	—	—	TO-77
2N2453	NPN	60	30	7	150	600	1000	0.9	1000	3.0	10	10	10	5	TO-78
2N2453A	NPN	80	50	7	150	600	1000	0.9	1000	3.0	10	10	10	5	TO-78
2N2490	NPN	75	40	5	20	—	—	0.8	—	10.0	—	—	—	—	TO-77
2N2490A	NPN	80	40	5	35	—	—	0.8	—	5.0	—	—	—	—	TO-77
2N2639	NPN	45	45	5	50	300	10	0.9	10	5.0	10	10	10	10	TO-78
2N2640	NPN	45	45	5	50	300	10	0.8	10	10.0	10	20	10	10	TO-78
2N2641	NPN	45	45	5	50	300	10	—	—	—	—	—	—	—	TO-78
2N2642	NPN	45	45	5	100	300	10	0.9	10	5.0	10	10	10	10	TO-78
2N2643	NPN	45	45	5	100	300	10	0.8	10	10.0	10	20	10	10	TO-78
2N2644	NPN	45	45	5	100	300	10	—	—	—	—	—	—	—	TO-78
2N2907	PNP	25	20	5	40	120	—100	—	—	—	—	—	—	—10	TO-78
2N2903	NPN	60	30	7	125	625	1000	0.8	1000	10.0	10	20	10	10	TO-78
2N2903A	NPN	60	30	7	125	625	1000	0.9	1000	5	10	10	10	10	TO-78
2N2910	NPN	45	25	—	70	—	—	—	—	—	—	—	—	—	TO-79
2N2913	NPN	45	45	6	60	240	10	—	—	—	—	—	—	—	TO-78
2N2914	NPN	45	45	6	150	600	10	—	—	—	—	—	—	—	TO-78
2N2915	NPN	45	45	6	60	240	10	0.9	100	3	100	10	100	10	TO-78
2N2915A	NPN	45	45	6	100	—	—	—	—	1.5	—	5	—	—	TO-77
2N2916	NPN	45	45	6	150	600	10	0.9	100	3	100	10	100	10	TO-78
2N2916A	NPN	45	45	6	225	—	—	—	—	1.5	—	5	—	—	TO-77
2N2917	NPN	45	45	6	60	240	10	0.8	100	5.0	100	20	100	10	TO-78
2N2918	NPN	45	45	6	150	600	10	0.8	100	5.0	100	20	100	10	TO-78
2N2919	NPN	60	60	6	60	240	10	0.9	100	3.0	100	3.0	100	2	TO-78
2N2919A	NPN	60	60	6	100	—	—	—	—	1.5	—	5	—	—	TO-77
2N2920	NPN	60	60	6	150	600	10	0.9	100	3.0	100	10	100	2	TO-78
2N2920A	NPN	60	60	6	100	—	—	—	—	1.5	—	5	—	—	TO-77
2N2972	NPN	45	45	6	60	240	10	—	—	—	—	—	—	—	TO-71
2N2973	NPN	45	45	6	150	600	10	—	—	—	—	—	—	—	TO-71
2N2974	NPN	45	45	6	60	240	10	0.9	100	3.0	100	10	100	10	TO-71
2N2975	NPN	45	45	6	150	600	10	0.9	100	3.0	100	10	100	10	TO-71
2N2976	NPN	45	45	6	60	240	10	0.8	100	5.0	100	20	100	10	TO-71
2N2977	NPN	45	45	6	150	600	10	0.8	100	5.0	100	20	100	10	TO-71
2N2978	NPN	60	60	6	60	240	10	0.9	100	3.0	100	10	100	2	TO-71
2N2979	NPN	60	60	6	150	600	10	0.9	100	3.0	100	10	100	2	TO-71
2N3423	NPN	30	15	3	20	200	—	0.8	—	10.0	—	40	—	10	TO-79
2N3424	NPN	30	15	3	20	200	—	0.9	—	5.0	—	20	—	10	TO-79
2N3650	NPN	60	50	6	300	—	—	0.9	—	3.0	—	5	—	10	TO-79
2N3907	NPN	60	45	6	60	300	—	0.9	—	1.0	—	5	—	10	TO-79
2N3908	NPN	60	60	6	100	300	—	0.9	—	1.0	—	5	—	2	TO-79

unijunction transistors

2N489	450	6.8	0.62	8.0	20	12 @ 60	5.0
2N489A	450	6.8	0.62	8.0	15	12 @ 60	4.0
2N489B	450	6.8	0.62	8.0	6.0	0.2 @ 60	4.0
2N490	450	9.1	0.62	8.0	20	12 @ 60	5.0
2N490A	450	9.1	0.62	8.0	15	12 @ 60	4.0
2N490B	450	9.1	0.62	8.0	6.0	0.2 @ 60	4.0
2N490C	450	9.1	0.51	8.0	—	—	—
2N491	450	6.8	0.68	8.0	20	12 @ 60	5.0
2N491B	450	6.8	0.68	8.0	6.0	0.2 @ 60	4.3
2N492	450	9.1	0.68	8.0	20	12 @ 60	5.0
2N492A	450	9.1	0.68	8.0	15	12 @ 60	4.3
2N492B	450	9.1	0.68	8.0	6.0	0.2 @ 60	4.3
2N492C	450	9.1	0.56	8.0	—	—	—
2N493	450	6.8	0.75	8.0	20	12 @ 60	5.0
2N493A	450	6.8	0.75	8.0	15	—	—
2N493B	450	6.8	0.75	8.0	6.0	0.2 @ 60	5.0
2N494	450	9.1	0.75	8.0	20	12 @ 60	5.0
2N494A	450	9.1	0.75	8.0	15	12 @ 60	4.6
2N494B	450	9.1	0.75	8.0	6.0	0.2 @ 60	4.6
2N494C	450	9.1	0.62	8.0	2.0	0.02 @ 60	4.6
2N1671	450	9.1	0.62	8.0	25	12 @ 30	5.0
2N1671A	450	9.1	0.62	8.0	25	12 @ 30	5.0
2N1671B	450	9.1	0.62	8.0	6.0	0.2 @ 30	5.0
2N1671C	450	4.1-9.1	—	—	—	—	—
2N2160	450	4.0-12	0.47-0.80	8.0	25	12 @ 30	—
2N2646.7	300	4.7-9.1	0.56-0.75	4.0	5	12 @ 30	2.0
2N2647	300	4.7-9.1	0.68-0.82	8.0	2.0	0.2 @ 30	3.5
2N4851	300	4.7-9.1	0.56-0.75	2.0	2.0	0.1 @ 30	*2.5
2N4852	300	4.7-9.1	0.70-0.85	4.0	2.0	0.1 @ 30	*2.5
2N4853	300	4.7-9.1	0.70-0.85	6.0	0.4	0.05 @ 30	*2.5
2N6027.8	300	—	—	—	—	—	—

PROGRAMMABLE

*See full specifications

case outline drawings



