

# General Purpose Transistors



**S** Indicates sorted columns  
\* Consult datasheet on web

Central Part Number (Click to view product details)	<b>S</b> V <sub>CEO</sub> MIN	I <sub>C</sub> MIN	V <sub>CE(SAT)</sub>	h <sub>FE</sub> MIN	Die Size (MILS)	Die Thickness (MILS)	Top Metallization (Å)	Bottom Metallization (Å)
CP317X-2N5179	12V	50mA	400mV	25	14.565 X 14.565	5.9	AL-SI (12000)	AU-AS (9000)
CP317X-BFY90	15V	25mA	N/A*	25	14.565 X 14.565	5.9	AL-SI (12000)	AU-AS (9000)
CP317X-2N918	15V	50mA	400mV	20	14.565 X 14.565	5.9	AL-SI (12000)	AU-AS (9000)
CP317X-2N5770	15V	50mA	400mV	50	14.565 X 14.565	5.9	AL-SI (12000)	AU-AS (9000)
CP742X-CM4209	15V	200mA	180mV	50	17.7 X 17.7	5.9	AL (30000)	AU (12000)
CP246-CMPT3646	15V	200mA	300mV	30	13.5 X 13.5	8	AL (13000)	AU (13000)
CP396V-2N2369A	15V	200mA	300mV	40	14.2 X 8.7	7.1	AL (13000)	AU-AS (9000)
CP681-MPSH81	20V	50mA	500mV	60	15 X 15	7.9	AL-SI (13000)	AU (12000)
CP388X-CMKT5089M	25V	50mA	500mV	400	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP388X-2N5089	25V	50mA	500mV	400	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP388X-BC109C	25V	200mA	250mV	420	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP315V-CZT3150	25V	5A	500mV	250	40.15 X 40.15	7.09	AL (30000)	AU (12000)
CP312-CJD200	25V	5A	750mV	45	70.87 X 70.87	9	AL (30000)	TI/NI/AG (1000/500/11300)
CP753V-MJE210	25V	5A	750mV	45	65.748 X 65.748	7.09	AL-SI (30000)	TI/NI/AG (2000/3000/20000)
CP302-MPSH10	25V	N/A*	500mV	60	14.5 X 14.5	9	AL (30000)	AU (18000)
CP188-2N5088	30V	50mA	500mV	300	14.568 X 14.568	9	AL (30000)	AU-AS (18000)
CP388X-2N5088	30V	50mA	500mV	300	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP588-MPQ3798	40V	50mA	200mV	100	14.57 X 14.57	9	AL (30000)	AU (18000)
CP392V-CMLT3904E	40V	200mA	100mV	100	11.024 X 11.024	7.09	AL (30000)	AU (12000)
CP392V-CMPT3904	40V	200mA	200mV	100	11.024 X 11.024	7.09	AL (30000)	AU (12000)
CP392V-2N3904	40V	200mA	200mV	100	11.024 X 11.024	7.09	AL (30000)	AU (12000)
CP792V-CMPT3906	40V	200mA	250mV	100	11.024 X 11.024	7.09	AL (30000)	AU (18000)
CP792V-2N3251	40V	200mA	250mV	100	11.024 X 11.024	7.09	AL (30000)	AU (18000)
CP792V-2N3906	40V	200mA	250mV	100	11.024 X 11.024	7.09	AL (30000)	AU (18000)
CP191V-2N4401	40V	600mA	400mV	100	16.535 X 16.535	7.09	AL (30000)	AU-AS (9000)
CP191V-2N4401	40V	600mA	400mV	100	16.535 X 16.535	7.09	AL (30000)	AU-AS (13000)
CP225-2N2218A	40V	800mA	300mV	40	19.7 X 19.7	10	AL (30000)	AU (12000)
CP191V-2N2219A	40V	800mA	300mV	100	16.535 X 16.535	7.09	AL (30000)	AU-AS (13000)
CP191V-2N2219A	40V	800mA	300mV	100	16.535 X 16.535	7.09	AL (30000)	AU-AS (9000)
CP191V-2N2222A	40V	800mA	300mV	100	16.535 X 16.535	7.09	AL (30000)	AU-AS (13000)
CP191V-2N2222A	40V	800mA	300mV	100	16.535 X 16.535	7.09	AL (30000)	AU-AS (9000)
CP767V-2N3467	40V	1A	500mV	40	29.92 X 29.92	7.09	AL (30000)	AU (9000)
CP314V-MPS650	40V	2A	300mV	75	40.16 X 40.16	7.09	AL (30000)	AU (9000)
CP714V-MPS750	40V	2A	300mV	75	40.16 X 40.16	7.1	AL (30000)	AU (9000)
CP588-2N2605	45V	30mA	500mV	100	14.57 X 14.57	9	AL (30000)	AU (18000)
CP788X-2N2605	45V	30mA	500mV	100	13.7 X 13.7	5.9	AL-SI (17000)	AU (9000)
CP388X-BC847B	45V	100mA	250mV	200	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP788X-BCX71K	45V	100mA	250mV	380	13.7 X 13.7	5.9	AL-SI (17000)	AU (9000)
CP388X-BC847C	45V	100mA	250mV	420	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP188-BCY59-VIII	45V	100mA	350mV	180	14.568 X 14.568	9	AL (30000)	AU-AS (18000)
CP388X-BCY59-IX	45V	100mA	350mV	250	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP388X-BCX70K	45V	100mA	350mV	380	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP388X-MPSA18	45V	200mA	200mV	500	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP188-BC107A	45V	200mA	250mV	110	14.568 X 14.568	9	AL (30000)	AU-AS (18000)

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CP305-BC817	45V	500mA	700mV	100	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305-BC817-40	45V	500mA	700mV	250	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305-BCW66H	45V	800mA	300mV	250	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305V-BCW66H	45V	800mA	300mV	250	31.1 X 31.1	7.1	AL (13000)	AU-AS (9000)
CP705V-BCW68H	45V	800mA	300mV	250	31.1 X 31.1	7.1	AL (13000)	AU (9000)
CP312-BD437	45V	4A	600mV	30	70.87 X 70.87	9	AL (30000)	TI/NI/AG (1000/500/11300)
CP788X-BCW70	50V	50mA	300mV	250	13.7 X 13.7	5.9	AL-SI (17000)	AU (9000)
CP788X-2N5087	50V	50mA	300mV	250	13.7 X 13.7	5.9	AL-SI (17000)	AU (9000)
CP337V-2N4014	50V	500mA	260mV	60	29.134 X 29.134	7.09	AL (30000)	AU-AS (13000)
CP188-BC549	50V	500mA	300mV	180	14.568 X 14.568	9	AL (30000)	AU-AS (18000)
CP337V-2N3725	50V	1.2A	260mV	60	29.134 X 29.134	7.09	AL (30000)	AU-AS (13000)
CP337V-2N3725A	50V	1.2A	260mV	60	29.134 X 29.134	7.09	AL (30000)	AU-AS (13000)
CP208-BD241	55V	4A	1V	25	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP211-2N3054A	55V	4A	1V	25	99.04 X 80.01	12.5	AL (30000)	CR/NI/AG (1000/5000/10000)
CP188-2N2919	60V	30mA	350mV	60	14.568 X 14.568	9	AL (30000)	AU-AS (18000)
CP388X-2N2920	60V	30mA	350mV	150	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP588-2N3806	60V	50mA	200mV	150	14.57 X 14.57	9	AL (30000)	AU (18000)
CP788X-2N3799	60V	50mA	200mV	300	13.7 X 13.7	5.9	AL-SI (17000)	AU (9000)
CP788X-2N3811	60V	50mA	200mV	300	13.7 X 13.7	5.9	AL-SI (17000)	AU (9000)
CP388X-2N2484	60V	50mA	350mV	100	12.99 X 12.99	5.9	AL-SI (17000)	AU (9000)
CP591X-2N2905A	60V	600mA	400mV	100	19.29 X 19.29	5.9	AL (13000)	AU (9000)
CP591X-2N2907A	60V	600mA	400mV	100	19.29 X 19.29	5.9	AL (13000)	AU (9000)
CP208-2N4911	60V	1A	600mV	20	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP314V-MPS651	60V	2A	300mV	75	40.16 X 40.16	7.09	AL (30000)	AU (9000)
CP325V-MJE181	60V	3A	900mV	50	40.16 X 40.16	7.09	AL (30000)	AU-AS (9000)
CP208-2N3766	60V	4A	1V	40	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP208-2N5191	60V	4A	600mV	25	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP312-BFX34	60V	5A	1V	40	70.87 X 70.87	9	AL (30000)	TI/NI/AG (1000/500/11300)
CP312-2N5154MOD	60V	5A	1V	40	70.87 X 70.87	9	AL (30000)	TI/NI/AG (1000/500/11300)
CP611-2N5955	60V	6A	1V	20	99 X 80	12.5	AL (50000)	CR/NI/AG (1000/5000/10000)
CP635-2N3791	60V	10A	1V	50	106 X 106	12	AL (50000)	AG (10000)
CP235-2N3715	60V	10A	800mV	50	106 X 106	12	AL (50000)	AG (10000)
CP235-2N3055	60V	15A	1.1V	20	106 X 106	12	AL (50000)	AG (10000)
CP635-MJ2955	60V	15A	1.1V	20	106 X 106	12	AL (50000)	AG (10000)
CP312-CZT3120	70V	3A	500mV	100	70.87 X 70.87	9	AL (30000)	TI/NI/AG (1000/500/11300)
CP611-2N6107	70V	7A	3.5V	30	99 X 80	12.5	AL (50000)	CR/NI/AG (1000/5000/10000)
CP305-D40D11	75V	1A	1V	120	31.1 X 31.1	9	AL (30000)	AU (18000)
CP705V-D41D11	75V	1A	1V	120	31.1 X 31.1	7.1	AL (13000)	AU (9000)
CP325V-2N5320	75V	2A	500mV	30	40.16 X 40.16	7.09	AL (30000)	AU-AS (9000)
CP714V-2N5322	75V	2A	700mV	30	40.16 X 40.16	7.1	AL (30000)	AU (9000)
CP304V-CMPTA06	80V	500mA	250mV	100	22.05 X 22.05	7.1	AL (30000)	AU (18000)
CP304V-MPSA06	80V	500mA	250mV	100	22.05 X 22.05	7.1	AL (30000)	AU (18000)
CP304X-MPSA06	80V	500mA	250mV	100	22.05 X 22.05	5.9	AL (30000)	AU-AS (9000)
CP720-MPSA56	80V	500mA	250mV	100	22.047 X 22.047	9	AL (30000)	AU (18000)

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CP303X-CMPT8099	80V	500mA	400mV	100	22.05 X 22.05	5.9	AL (30000)	AU-AS (9000)
CP705V-CZT4033	80V	1A	150mV	100	31.1 X 31.1	7.1	AL (13000)	AU (9000)
CP305-2N3020	80V	1A	200mV	30	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305-2N3701	80V	1A	200mV	30	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305-BCX20	80V	1A	200mV	100	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305-BC327C	80V	1A	200mV	100	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305-2N3019	80V	1A	200mV	100	31.1 X 31.1	9	AL (30000)	AU (18000)
CP305-2N3700	80V	1A	200mV	100	31.1 X 31.1	9	AL (30000)	AU (18000)
CP325V-2N5150	80V	2A	460mV	70	40.16 X 40.16	7.09	AL (30000)	AU-AS (9000)
CP714V-2N5149	80V	2A	460mV	70	40.16 X 40.16	7.1	AL (30000)	AU (9000)
CP312-2N4239	80V	3A	300mV	30	70.87 X 70.87	9	AL (30000)	TI/NI/AG (1000/500/11300)
CP208-MJE182	80V	3A	900mV	50	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP325V-MJE182	80V	3A	900mV	50	40.16 X 40.16	7.09	AL (30000)	AU-AS (9000)
CP714V-MJE172	80V	3A	900mV	50	40.16 X 40.16	7.1	AL (30000)	AU (9000)
CP208-2N3767	80V	4A	1V	40	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP608-2N3741	80V	4A	600mV	30	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP348-2N5154	80V	5A	750mV	70	82.677 X 82.677	9.06	AL-SI (40000)	TI/NI/AG (2000/3000/20000)
CP220-CJD44H11	80V	8A	1V	60	100.5 X 100.5	12.5	AL (50000)	AG (10000)
CP620-CJD45H11	80V	8A	1V	60	100.5 X 100.5	12.5	AL (50000)	AG (10000)
CP235-2N3716	80V	10A	800mV	50	106 X 106	12	AL (50000)	AG (10000)
CP788X-2N3799A	90V	50mA	200mV	300	13.7 X 13.7	5.9	AL-SI (17000)	AU (9000)
CP305-2N3499	100V	500mA	250mV	100	31.1 X 31.1	9	AL (30000)	AU (18000)
CP208-TIP31C	100V	3A	1.2V	10	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP608-TIP32C	100V	3A	1.2V	10	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP608-2N6475	100V	4A	1.2V	15	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP211-TIP41C	100V	6A	1.5V	15	99.04 X 80.01	12.5	AL (30000)	CR/NI/AG (1000/5000/10000)
CP611-TIP42C	100V	6A	1.5V	15	99 X 80	12.5	AL (50000)	CR/NI/AG (1000/5000/10000)
CP318V-2N5682	120V	1A	1V	40	25.984 X 25.984	7.09	AL-SI (17000)	AU (9000)
CP595-2N5680	120V	1A	1V	40	30 X 30	7	AL (30000)	AU (10000)
CP608-2N6468	120V	4A	1.2V	15	66 X 66	12.5	AL (50000)	CR/NI/AG (1000/6000/10000)
CP736V-2N3635	140V	1A	300mV	100	17.323 X 17.323	7.1	AL-SI (17000)	AU (9000)
CP310-2N3114	150V	200mA	1V	30	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP318V-2N3501	150V	300mA	250mV	100	25.984 X 25.984	7.09	AL-SI (17000)	AU (9000)
CP736V-CMPT5401	150V	600mA	200mV	60	17.323 X 17.323	7.1	AL-SI (17000)	AU (9000)
CP736V-2N5401	150V	600mA	200mV	60	17.323 X 17.323	7.1	AL-SI (17000)	AU (9000)
CP336V-2N5551	160V	600mA	150mV	80	17.323 X 17.323	7.1	AL-SI (17000)	AU (9000)
CP348-BUY48	170V	7A	450mV	40	82.677 X 82.677	9.06	AL-SI (40000)	TI/NI/AG (2000/3000/20000)
CP710V-2N5415	200V	1A	2.5V	30	25.98 X 25.98	7.09	AL (30000)	AU (9000)
CP349-BUY49S	200V	3A	200mV	40	51.181 X 51.181	9.06	AL (30000)	TI/NI/AG (2000/3000/20000)
CP212-TIP47	250V	1A	1V	30	99.05 X 80.01	12.5	AL (30000)	CR/NI/AG (1000/5000/10000)
CP310-2N3440	250V	1A	500mV	40	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP310-2N6431	300V	100mA	500mV	50	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP310-CJD340	300V	500mA	1V	30	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP710V-CJD350	300V	500mA	2.6V	30	25.98 X 25.98	7.09	AL (30000)	AU (9000)

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CP310-CMPTA42	300V	500mA	500mV	25	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP310-MPSA42	300V	500mA	500mV	25	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP310V-CMPTA42	300V	500mA	500mV	25	25.98 X 25.98	7.09	AL (30000)	AU (18000)
CP710V-MPSA92	300V	500mA	800mV	25	25.98 X 25.98	7.09	AL (30000)	AU (9000)
CP310-MJE340	300V	500mA	N/A*	30	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP710V-2N5416	300V	1A	2V	30	25.98 X 25.98	7.09	AL (30000)	AU (9000)
CP212-2N3585	300V	2A	0.75V	8	99.05 X 80.01	12.5	AL (30000)	CR/Ni/AG (1000/5000/10000)
CP212-2N4240	300V	2A	1V	10	99.05 X 80.01	12.5	AL (30000)	CR/Ni/AG (1000/5000/10000)
CP310-MJE3439	350V	300mA	500mV	50	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP310-2N6517	350V	500mA	350mV	30	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP710V-2N6520	350V	500mA	350mV	30	25.98 X 25.98	7.09	AL (30000)	AU (9000)
CP310-2N3439	350V	1A	500mV	40	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP310-CMPTA44	400V	300mA	500mV	50	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP310-MPSA43	400V	300mA	500mV	50	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP710V-CMPTA94	400V	300mA	500mV	50	25.98 X 25.98	7.09	AL (30000)	AU (9000)
CP710V-CZTA94	400V	300mA	500mV	50	25.98 X 25.98	7.09	AL (30000)	AU (9000)
CP212-TIP50	400V	1A	1V	30	99.05 X 80.01	12.5	AL (30000)	CR/Ni/AG (1000/5000/10000)
CP212-CZTA44HC	400V	2A	500mV	35	99.05 X 80.01	12.5	AL (30000)	CR/Ni/AG (1000/5000/10000)
CP285-MJE13005	400V	4A	600mV	10	105.51 X 105.51	9.45	AL (45000)	Ti/Ni/AG (3000/10000/10000)
CP289-MJE13009	400V	12A	1.5V	8	167.32 X 167.32	9.45	AL (45000)	Ti/Ni/AG (3000/10000/10000)
CP310-CMPTA46	450V	500mA	300mV	50	25.98 X 25.98	9.06	AL (30000)	AU (9000)
CP710-CMPTA96	450V	500mA	300mV	50	25.98 X 25.98	9.06	AL (30000)	AU (18000)
CP710V-CMPTA96	450V	500mA	300mV	50	25.98 X 25.98	7.09	AL (30000)	AU (9000)
CP250-CZTUX87	450V	500mA	800mV	12	99.285 X 68.853	11.6	AL-Si (60000)	Ti/Ni/AG (3000/2000/500)
CP101-BSS52	N/A*	1A	150mA	N/A*	27.5 X 27.5	8	AL (30000)	AU (12000)

# RF Oscillator Transistors



## NPN

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CP229-2N5109	20V	400mA	500mV	40	21.651 X 21.651	8.66	AL (10000)	AU (10000)
CP243-CM5943	30V	400mA	200mV	25	21.65 X 21.65	9.5	AL (10000)	AU (12000)
CP223-2N3866	30V	400mA	1V	10	21.7 X 21.7	9	AL (30000)	AU (12000)

## PNP

Central Part Number (Click to view product details)	V <sub>CEO</sub> MIN	I <sub>C</sub> MIN	V <sub>CE(SAT)</sub>	h <sub>FE</sub> MIN	Die Size (MILS)	Die Thickness (MILS)	Top Metallization (Å)	Bottom Metallization (Å)
CP681-CMPH81	20V	50mA	500mV	60	15 X 15	7.9	AL-Si (13000)	AU (12000)
CP617-CM4957	25V	30mA	N/A*	20	15.7 X 15.7	7.9	AL (9000)	AU (10000)
CP618-CM5583	30V	500mA	800mV	25	21.7 X 21.7	9	AL (10000)	AU (10000)
CP616-CM5160	40V	400mA	N/A*	10	21.7 X 21.7	9	AL (30000)	AU (10000)