

## METAL SMALL-SIGNAL TRANSISTORS (continued)

### General-Purpose Amplifiers

These transistors are designed for dc to VHF amplifier applications, general-purpose switching applications, and complementary circuitry. Devices are listed in decreasing order of  $V_{(BR)CEO}$  within each package group.

Package	Device Type	$V_{(BR)CEO}$ Volts Min	$f_T$ MHz Min	@ $I_C$ mA	$I_C$ mA Max	$h_{FE}$		@ $I_C$ mA	Comments
						Min	Max		

### NPN

TO-18	2N2896	90	120	50	1000	60	200	150	Exists under CECC Exists in VII, VIII, IX, X HFE groups Exists under CECC A, B HFE groups Exists under CECC Exists in VII, VIII, IX, X HFE groups Exists under CECC Exists under CECC A, B, C, HFE groups Exists under CECC B, C, HFE groups
	2N3700#	80	80	1.0	1000	50		500	
	2N2484#	60	15	0.05	50	100	500	0.01	
	2N930	45	30	0.5	30	100	300	0.01	
	BCY59	45	125	10	200	120	630	2	
	BC107	45	150	10	100	110	800	2	
	2N2222A#	40	300	20	800	100	300	150	
	BCY58	32	125	10	200	120	630	2	
	2N2222#	30	250	20	800	100	300	150	
	BSX51	25	150	10	200	75	225	2	
	BSX52	25	150	10	200	180	540	2	
	BC108	20	150	10	100	110	800	2	
	BC109	20	150	10	100	200	800	2	
	TO-39	BSX47	80	50	50	1000	40	400	
2N1711		80	70	50		100	300	150	
2N3019#		80	100	50	1000	100	300	150	
BSX46		60	50	50	1000	40	250	100	
BC141		60	50	50	1000	40	400	100	
2N1613#		50	60	50	500	40	120	150	
BSX45		40	50	50	1000	40	250	100	
BC140		40	50	50	1000	40	400	100	
2N2219A#		40	300	20	800	100	300	150	
2N3053		40	100	50	700	50	250	150	
BFY50		35	60	50	1000	30	—	150	
BFY51		30	50	50	1000	40	—	150	
2N2219#		30	250	20	800	100	300	150	
BFY52		20	50	50	1000	50	—	150	

勝特力材料 886-3-5753170  
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[Http://www.100y.com.tw](http://www.100y.com.tw)

## METAL SMALL-SIGNAL TRANSISTORS (continued)

### Choppers

Devices are listed in decreasing  $V_{(BR)EBO}$ .

Package	Device	$V_{(BR)EBO}$ Min	$V_{(BR)ECO}$	Min $h_{FE(inv)}$	Offset Voltage $V_{EC(ofs)}$ Max (mV)	On-State Resistance $r_{ec(on)}$ Max ( $\Omega$ )
TO-46	2N2946	40	35	3.0	2.0	45
	2N2946A	40	35	20	2.0	8.0
	2N5230	30	20	15	0.5	8.0
	2N5231	30	20	15	0.8	10
	2N2945A	25	20	30	1.0	6.0
	2N2945	25	20	4.0	1.0	35
	2N5229	15	10	15	0.5	6.0

JAN/JANTX available

### CECC Qualified Types

Qualified products to CECC 50000

All CECC types are available to assessment levels E, F, L

2N1613 (CECC) 2N1711 (CECC) 2N1893 (CECC) 2N2218 (CECC) 2N2218A (CECC) 2N2219 (CECC) 2N2219A (CECC) 2N2221 (CECC) 2N2221A (CECC) 2N2222 (CECC) 2N2222A (CECC) 2N2368 (UTE)	2N2369 (CECC) 2N2369A (CECC) 2N2484 (CECC) 2N2894 (CECC) 2N2904 (CECC) 2N2904A (CECC) 2N2905 (CECC) 2N2905A (CECC) 2N2906 (CECC) 2N2906A (CECC) 2N2907 (CECC) 2N2907A (CECC) 2N3439 (CECC)	2N3440 (CECC) 2N3501 (CECC) 2N4033 (CECC) 2N5415 (CECC) 2N5416 (CECC) BC107-108-109 (CECC) CV8616 (CECC) CV9507 (CECC) CV9543 (CECC) PO7726 (CECC)
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