

SMALL-SIGNAL TRANSISTORS & DIODES & MEDIUM-POWER RECTIFIERS

Small-signal transistors

GENERAL-PURPOSE L.F. BIPOLAR TRANSISTORS (CONTINUED)

SURFACE-MOUNT TYPES

type number	ratings			characteristics						package
	V _{CEO} max. (V)	I _C max. (mA)	P _{tot} max. (mW)	h _{FE} min./max.	@	I _C /V _{CE} (mA/V)	V _{CEsat.} @ max. (V)	I _C /I _B (mA/mA)	f _T typ. (MHz)	
PNP										
BC807	45	500	250	100/600		100/1	0.7	500/50	80 ¹⁾	SOT23
BC807W	45	500	200	100/600		100/1	0.7	500/50	80 ¹⁾	SOT323
BC808	25	500	250	100/600		100/1	0.7	500/50	80 ¹⁾	SOT23
BC808W	25	500	200	100/600		100/1	0.7	500/50	80 ¹⁾	SOT323
BC856	65	100	250	125/800		2/5	0.3	10/0.5	150	SOT23
BC856W	65	100	200	125/800		2/5	0.3	10/0.5	150	SOT323
BC857	45	100	250	125/800		2/5	0.3	10/0.5	100 ¹⁾	SOT23
BC857W	45	100	200	125/800		2/5	0.3	10/0.5	100 ¹⁾	SOT323
BC858	30	100	250	125/800		2/5	0.3	10/0.5	100 ¹⁾	SOT23
BC858W	30	100	200	125/800		2/5	0.3	10/0.5	100 ¹⁾	SOT323
BC869	20	1000	1000	85/375		500/1	0.5	1000/100	60	SOT89
BCP51	45	1000	1500	40/250		150/2	0.5	500/50	50	SOT223
BCP52	60	1000	1500	40/250		150/2	0.5	500/50	50	SOT223
BCP53	80	1000	1500	40/250		150/2	0.5	500/50	50	SOT223
BCP69	25	1000	1500	85/375		500/1	0.5	1000/100	60	SOT223
BCV26 ²⁾	30	300	250	20000/-		100/5	1.0	100/0.1	220	SOT23
BCV28 ²⁾	30	500	1000	20000/-		100/5	1.0	100/0.1	220	SOT89
BCV46 ²⁾	60	500	250	4000/-		10/5	1.0	100/0.1	220	SOT23
BCV48 ²⁾	60	500	1000	10000/-		100/5	1.0	100/0.1	220	SOT89
BCV62 ³⁾	30	100	250	100/800		2/5	0.65	100/5	150	SOT143
BCV64 ³⁾	30	100	250	100/800		2/5	0.3	100/0.5	200	SOT143
BCV65 ⁶⁾	30	100	250	75/800		2/5	0.3	10/0.5	100	SOT143
BCW29	32	100	250	120/260		2/5	0.3	10/0.5	150	SOT23
BCW30	32	100	250	215/500		2/5	0.3	10/0.5	150	SOT23
BCW61A	32	200	250	120/220		2/5	0.25	10/0.25	180	SOT23
BCW61B	32	200	250	180/310		2/5	0.25	10/0.25	180	SOT23
BCW61C	32	200	250	250/460		2/5	0.25	10/0.25	180	SOT23
BCW61D	32	200	250	380/630		2/5	0.25	10/0.25	180	SOT23
BCW69	45	100	250	120/260		2/5	0.3	10/0.5	150	SOT23
BCW70	45	100	250	120/500		2/5	0.3	10/0.5	150	SOT23
BCW89	60	100	250	120/260		2/5	0.3	10/0.5	150	SOT23
BCX17	45	500	250	100/600		100/1	0.62	500/50	100	SOT23
BCX18	25	500	250	100/600		100/1	0.62	500/50	100	SOT23
BCX51	45	1000	1000	40/250		150/2	0.5	500/50	50	SOT89
BCX52	60	1000	1000	40/160		150/2	0.5	500/50	50	SOT89
BCX53	80	1000	1000	40/160		150/2	0.5	500/50	50	SOT89
BCX71G	45	200	250	120/220		2/5	0.25	100/0.25	180	SOT23
BCX71H	45	200	250	180/310		2/5	0.25	100/0.25	180	SOT23
BCX71J	45	200	250	250/460		2/5	0.25	100/0.25	180	SOT23
BCX71K	45	200	250	380/630		2/5	0.25	100/0.25	180	SOT23
BDP32	45	3000	1500	40/-		500/12	0.3	500/50	60 ¹⁾	SOT223
BSP30	60	1000	1500	40/120		100/5	0.25	150/15	100	SOT223
BSP31	60	1000	1500	100/300		100/5	0.25	150/15	100	SOT223
BSP32	80	1000	1500	40/120		100/5	0.25	150/15	100	SOT223
BSP33	80	1000	1500	100/300		100/5	0.25	150/15	100	SOT223
BSP60 ²⁾	45 ⁴⁾	500	1500	2000/-		500/10	1.3	500/0.5	-	SOT223
BSP61 ²⁾	60 ⁴⁾	500	1500	2000/-		500/10	1.3	500/0.5	-	SOT223
BSP62 ²⁾	80 ⁴⁾	500	1500	2000/-		500/10	1.3	500/0.5	-	SOT223

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PNP											
BSR15	40	600	250	100/300		150/10	1.6		500/50	200	SOT23
BSR16	60	600	250	100/300		150/10	1.6		500/50	200	SOT23
BSR30	60	1000	1000	40/120		100/5	0.5		500/50	100	SOT89
BSR31	60	1000	1000	100/300		100/5	0.5		500/50	100	SOT89
BSR32	80	1000	1000	40/120		100/5	0.5		500/50	100	SOT89
BSR33	80	1000	1000	100/300		100/5	0.5		500/50	100	SOT89
BSS63	100	100	250	30/-		25/1	0.25		25/2.5	50	SOT23
BST60 ²⁾	45 ⁴⁾	500	1000	1000/-		150/10	1.3		500/0.5	-	SOT89
BST61 ²⁾	60 ⁴⁾	500	1000	1000/-		150/10	1.3		500/0.5	-	SOT89
BST62 ²⁾	80 ⁴⁾	500	1000	1000/-		150/10	1.3		500/0.5	-	SOT89
PMBS3906	40	200	300	100/300		10/1	0.25		10/1	250	SOT23
PMBTA55	60	500	250	50/-		10/1	0.25		100/10	50	SOT23
PMBTA56	80	500	250	50/-		10/1	0.25		100/10	50	SOT23
PMBTA63 ²⁾	30 ⁵⁾	500	250	5000/-		10/5	1.5		100/0.1	125	SOT23
PMBTA64 ²⁾	30 ⁵⁾	500	250	10000/-		10/5	1.5		100/0.1	125	SOT23
PUMT1 ³⁾	40	100	300	120		1/6	0.2		50/5	100	SC70-6
PXTA64 ²⁾	30 ⁵⁾	300	1000	20000/-		100/5	1.5		100/0.1	125	SOT89
PXTA77 ²⁾	60 ⁵⁾	500	1000	10000/-		100/5	1.5		100/0.1	125	SOT89
PZTA56	80	500	1500	50/-		10/1	0.25		100/10	50 ¹⁾	SOT223
PZTA64 ²⁾	30	500	1500	20000/-		100/5	1.5		100/0.1	125	SOT223
2PB709	25	100	200	160 to 460 ⁷⁾		2/10	0.5		100/10	80 ¹⁾	SC59
2PB709A	45	100	200	160 to 460 ⁷⁾		2/10	0.5		100/10	80 ¹⁾	SC59
2PB710	25	500	200	85 to 340 ⁷⁾		150/10	0.6		300/30	150 ¹⁾	SC59
2PB710A	50	500	200	85 to 340 ⁷⁾		150/10	0.6		300/30	150 ¹⁾	SC59
2PA1576	40	100	200	120 to 560 ⁷⁾		1/6	0.5		50/5	100 ¹⁾	SC70

1) minimum value

2) darlington

3) double transistor

4) V_{CER}5) V_{CES}

6) NPN/PNP matched pair

7) available in three gain groups (Q, R, & S)
within the specified range