

## Surface Mount Devices

### General Purpose Transistors (cont.)

Type	Package	Ratings			h <sub>FE</sub>		V <sub>CE(sat)</sub>		f <sub>T</sub>	Pinout See Section VII
		V <sub>CEO</sub> V	V <sub>CBO</sub> V	I <sub>C</sub> mA	min./max. at I <sub>C</sub> /V <sub>CE</sub> mA/V		max. at I <sub>C</sub> /I <sub>B</sub> mA/mA		typ MHz	
PNP (cont.)										
BCW70	SOT-23	45	50	100	215/500	2/5	0.30	10/0.5	150	F
BC807W	SOT-323	45	50	500	100/600	100/1	0.70	500/50	100	AC
BC857W	SOT-323	45	50	100	75/900	2/5	0.30	10/0.5	150	AC
BCP52	SOT-223	60	60	1000	40/250	150/2	0.50	500/50	50	R
BCX52	SOT-89	60	60	1000	40/250	150/2	0.50	500/50	50	AE
PMBTA55	SOT-23	60	60	500	50/-	100/1	0.25	100/10	> 50	F
PMBT2907A	SOT-23	60	60	600	100/300	150/10	0.4	150/15	>200	F
PXT2907A	SOT-89	60	60	600	100/300	150/10	0.4	150/15	>200	AE
PZT2907A	SOT-223	60	60	600	100/300	150/10	0.4	150/15	>200	R
BCW89	SOT-23	60	80	100	120/260	2/5	0.30	10/0.5	150	F
BC856A	SOT-23	65	80	100	220/475	2/5	0.3	10/0.5	150	F
BC856B	SOT-23	65	80	100	125/250	2/5	0.30	10/0.5	150	F
BC856W	SOT-323	65	80	100	75/900	2/5	0.3	10/0.5	150	AC
PMBTA56	SOT-23	80	80	500	50/-	100/1	0.25	100/10	50	F
BCP53	SOT-223	80	100	1000	40/250	150/2	0.50	500/50	50	R
BCX53	SOT-89	80	100	1000	40/250	150/2	0.50	500/50	50	AE

### Switching Transistors

Type	Package	Ratings			h <sub>FE</sub>		V <sub>CE(sat)</sub>		t (max)		Pinout See Section VII
		V <sub>CEO</sub> V	V <sub>CBO</sub> V	I <sub>C</sub> mA	min./max. at I <sub>C</sub> /V <sub>CE</sub> mA/V		max. at I <sub>C</sub> /I <sub>B</sub> mA/mA		on/off at I <sub>C</sub> /I <sub>B</sub> ns mA/mA		
NPN											
BSV52	SOT-23	12	20	100	40/120	10/1	0.4	50/15	12/18	10/3	F
PMBT2369	SOT-23	15	40	500	40/120	10/1	.25	10/1	12/18	10/3	F
BSR13	SOT-23	30	60	800	100/300	150/10	1.6	500/50	35/285	150/-	F
PMBT2222	SOT-23	30	60	600	100/300	150/10	0.4	150/15	35/285	150/15	F
PXT4401	SOT-89	40	40	600	100/300	150/1	0.4	150/15	35/255	150/15	AE
PMBT4401	SOT-23	40	50	600	100/300	150/1	0.4	150/15	35/255	150/15	F
BSR17	SOT-23	40	60	200	50/150	10/1	0.3	50/5	70/225	10/1	F
BSR17A	SOT-23	40	60	200	100/300	10/1	0.3	50/5	70/250	10/1	F
BSR14	SOT-23	40	75	800	100/300	150/10	1.6	500/50	35/285	150/1	F
PMBT2222A	SOT-23	40	75	600	100/300	150/10	0.3	150/15	35/285	150/15	F
PXT2222A	SOT-89	40	75	600	100/300	150/10	0.3	150/15	35/285	150/15	AE
PZT2222A	SOT-223	40	75	600	100/300	150/10	0.3	150/15	35/285	150/15	R
BSP40	SOT-223	60	70	1000	40/120	100/5	0.5	500/50	250/1000	100/5	R
BSP41	SOT-223	60	70	1000	100/300	100/5	0.5	500/50	250/1000	100/5	R
BSR40	SOT-89	60	70	1000	40/120	100/5	0.5	500/50	250/1000	100/5	AE
BSR41	SOT-89	60	70	1000	100/5	100/5	0.5	500/50	250/1000	100/5	AE
BSP42	SOT-223	80	90	1000	40/120	100/5	0.5	500/50	250/1000	100/5	R
BSP43	SOT-223	80	90	1000	100/300	100/5	0.5	500/50	250/1000	100/5	R
BSR42	SOT-89	80	90	1000	40/120	100/5	0.5	500/50	250/1000	100/5	AE
BSR43	SOT-89	80	90	1000	100/300	100/5	0.5	500/50	250/1000	100/5	AE
BSS64	SOT-23	80	120	100	20/80	10/1	0.2	50/15	/1000	15/1	F

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