

## Surface Mount Devices

### Switching Transistors (cont.)

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	max. at I <sub>C</sub> /I <sub>B</sub> V	mA/mA	on/off at I <sub>C</sub> /I <sub>B</sub> ns	mA/mA	
<b>PNP</b>											
PMBT3640	SOT-23	12	12	80	20/-	50/1	0.6	50/5	25/35	10/5	F
BSR12	SOT-23	15	15	100	30/120	50/1	0.45	100/10	20/30	30/3	F
BSR18	SOT-23	40	40	200	50/150	10/1	0.40	50/5	70/250	10/1	F
BSR18A	SOT-23	40	40	200	100/300	10/1	0.4	50/5	70/300	10/1	F
PMBT4403	SOT-23	40	40	600	100/300	150/2	0.4	150/15	35/255	150/15	F
PXT4403	SOT-89	40	40	600	100/300	150/2	0.4	150/15	35/255	150/15	AE
BSR15	SOT-23	40	60	600	100/300	150/10	1.6	500/50	45/100	150/15	F
PMBT2907	SOT-23	40	60	600	100/300	150/10	0.4	150/15	45/100	150/15	F
BSR16	SOT-23	60	60	600	100/300	150/10	1.6	500/50	45/100	150/15	F
PMBT2907A	SOT-23	60	60	600	100/300	150/10	0.4	150/15	45/100	150/15	F
PXT2907A	SOT-89	60	60	600	100/300	150/10	0.4	150/15	45/100	150/15	AE
PZT2907A	SOT-223	60	60	600	100/300	150/10	0.4	150/15	45/100	150/15	R
BSP30	SOT-223	60	70	1000	40/120	100/5	0.5	500/50	500/650	100/5	R
BSP31	SOT-223	60	70	1000	100/300	100/5	0.5	500/50	500/650	100/5	R
BSR30	SOT-89	60	70	1000	40/120	100/5	0.5	500/50	500/650	100/5	AE
BSR31	SOT-89	60	70	1000	100/300	100/5	0.5	500/50	500/650	100/5	AE
BSP32	SOT-223	80	90	100	40/120	100/5	0.5	500/50	500/650	100/5	R
BSP33	SOT-223	80	90	1000	100/300	100/5	0.5	500/50	500/650	100/5	R
BSR32	SOT-89	80	90	1000	40/120	100/5	0.5	500/50	500/650	100/5	AE
BSR33	SOT-89	80	90	1000	100/300	100/5	0.5	500/50	500/650	100/5	AE
BSS63	SOT-23	100	110	100	30/-	25/1	0.25	25/2.5	-	-	F

### Darlington Transistors

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. at I <sub>C</sub> /V <sub>CE</sub> mA/V	max. at I <sub>C</sub> /I <sub>B</sub> mA/mA	V	mA/mA	typ MHz	
<b>NPN</b>										
PMBTA13	SOT-23	20	30	300	10,000	100/5	1.5	100/0.1	125	F
PZTA13	SOT-223	20	30	300	10,000	100/5	1.5	100/0.1	125	R
PMBTA14	SOT-23	30	30	300	20,000	100/5	1.5	100/0.1	125	F
PXTA14	SOT-89	30	30	300	20,000	100/5	1.5	100/0.1	125	AE
PZTA14	SOT-223	30	30	300	20,000	100/5	1.5	100/0.1	125	R
BCV27	SOT-23	30	40	300	20,000	100/5	1.0	100/0.1	100	F
PMBT6427	SOT-23	40	40	500	14,000	500/5	1.5	500/0.5	-	F
BSP50	SOT-223	60	45	500	2,000	500/10	1.3	500/0.5	-	R
BST50	SOT-89	60	45	500	2,000	500/10	1.3	500/0.5	-	F
BST51	SOT-89	80	60	500	2,000	500/1	1.3	500/0.5	-	F
BSP52	SOT-223	90	80	500	2,000	500/5	1.3	500/0.5	-	R
BST52	SOT-89	90	80	500	2,000	500/5	1.3	500/0.5	-	F
<b>PNP</b>										
PMBTA63	SOT-23	30	30	300	10,000	100/5	1.5	100/0.1	125	F
PMBTA64	SOT-23	30	30	300	20,000	100/5	1.5	100/0.1	125	F
PXTA64	SOT-89	30	30	300	20,000	100/5	1.5	100/0.1	125	F
PZTA63	SOT-223	30	30	300	10,000	100/5	1.5	100/0.1	125	R
PZTA64	SOT-223	30	30	300	20,000	100/5	1.5	100/0.1	125	R
BCV26	SOT-23	30	40	300	20,000	100/5	1.0	100/0.1	100	F

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