



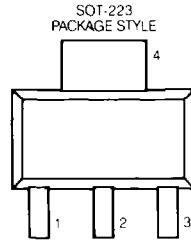
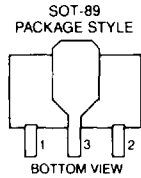
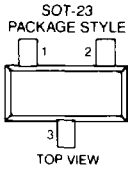
## HIGH VOLTAGE SMD TRANSISTORS

### ELECTRICAL SPECIFICATIONS

TYPE	PACKAGE	RATINGS			h <sub>FE</sub>		V <sub>CE(sat)</sub>		f <sub>T</sub>	PINOUT
		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> V mA/mA		typ. MHz	
<b>NPN</b>										
BF620	SOT-89	—	300	20	50/-	25/20	0.6	30/5	60	F
BF720	SOT-223	—	300	50	50/-	25/20	0.6	30/5	60	R
BF820	SOT-23	—	300	50	50/-	25/20	0.6	30/5	60	F
BSR19	SOT-23	140	160	600	60/250	10/5	0.25	50/5	100	F
PMBT5550	SOT-23	140	160	600	60/250	10/5	0.15	10/1	200	F
BSR19A	SOT-23	160	180	600	80/250	10/5	0.2	50/5	100	F
PMBT5551	SOT-23	160	180	600	80/250	10/5	0.15	10/1	200	F
PMBTA43	SOT-23	200	200	500	40/-	30/10	0.5	20/2	50	F
PZTA43	SOT-223	200	200	500	40/-	30/10	0.5	20/2	50	R
BF622	SOT-89	250	250	20	50/-	25/20	0.6	30/5	60	F
BF722	SOT-223	250	250	50	50/-	25/20	0.6	30/5	60	R
BF822	SOT-23	250	250	50	50/-	25/20	0.6	30/5	60	F
BSP20	SOT-223	250	300	1000	40/160	30/10	0.5	20/2	50	R
BST40	SOT-89	250	300	1000	40/160	20/10	0.50	50/4	15	F
PMBTA42	SOT-23	300	300	500	40/-	30/10	0.5	20/2	50	F
PZTA42	SOT-223	300	300	500	40/-	30/10	0.5	20/2	50	R
BSP19	SOT-223	350	400	1000	40/160	20/10	0.50	50/4	15	R
BST39	SOT-89	350	400	1000	40/160	20/10	0.50	50/4	15	F
PXTA42	SOT-89	300	300	500	40/1	30/10	0.50	20/2	50	F
<b>PNP</b>										
BF621	SOT-89	—	300	20	50/-	25/20	0.8	30/5	60	F
BF721	SOT-223	—	300	50	50/-	25/20	0.8	30/5	60	R
BF821	SOT-23	—	300	50	50/-	25/20	0.8	30/5	60	F
BF823	SOT-23	50	250	50	50/-	25/20	0.8	30/5	60	F
BSR20	SOT-23	120	130	600	40/180	10/5	0.5	50/5	100	F
BSR20A	SOT-23	150	160	600	60/240	10/5	0.5	50/5	100	F
PMBT5401	SOT-23	150	160	600	60/240	10/5	0.2	10/1	200	F
BF723	SOT-223	200	200	50	50/-	25/20	0.8	30/5	60	R
BSP15	SOT-223	200	200	1000	30/150	50/10	2.5	50/5	15	R
BST15	SOT-89	200	200	1000	30/150	50/10	2.5	50/5	15	F
PMBTA93	SOT-23	200	200	500	25/-	30/10	0.5	20/2	50	F
BF623	SOT-89	200	200	20	25/-	30/10	0.5	20/2	50	F
PZTA93	SOT-223	200	200	500	25/-	30/10	0.5	20/2	50	R
BSP16	SOT-223	300	350	1000	30/120	50/10	2.5	50/5	15	R
BST16	SOT-89	300	350	1000	30/120	50/10	2.0	50/5	15	F
PMBTA92	SOT-23	300	300	500	25/-	30/10	0.5	20/2	50	F
PXTA92	SOT-89	300	300	500	25/-	30/10	0.5	20/2	50	F
PZTA92	SOT-223	300	300	500	25/-	30/10	0.5	20/2	50	R

# HIGH VOLTAGE SMD TRANSISTORS

## PINOUT DIAGRAMS



	PIN 1	PIN 2	PIN 3	PIN 4
PINOUT F: SOT-23	E	B	C	—
PINOUT F: SOT-89	E	B	C	—
PINOUT R: SOT-223	B	C	E	C

## MARKING CODES

Type No.	Code	Type No.	Code	Type No.	Code	Type No.	Code
BF620	DC	BF821	1W	BSR20	T35	PMBTA42	1D
BF621	DF	BF822	1X	BSR20A	T36	PMBTA43	1E
BF622	DA	BF823	1Y	BST15	BT1	PMBTA92	2D
BF623	DB	BSP15	*	BST16	BT2	PMBTA93	2E
BF720	*	BSP16	*	BST39	AT1	PXTA42	1D
BF721	*	BSP19	*	BST40	AT2	PXTA92	2D
BF722	*	BSP20	*	PMBT5401	2L	PZTA42	*
BF723	*	BSR19	U35	PMBT5550	IF	PZTA43	*
BF820	IV	BSR19A	U36	PMBT5551	G1	PZTA92	*
						PZTA93	*

## TAPE AND REEL SPECIFICATIONS

(Dimensions in mm)

SM Package	Devices per reel	Reel Size (in)	Tape Width (mm)	Ordering Suffix
SOT-23	3K	7	8	TRL
	10K	13	8	TRL 13
SOT-89	1K	7	12	TRL
	4K	13	12	TRL 13
SOT-223	1K	7	12	TRL
	4K	13	12	TRL 13

