

SMALL-SIGNAL TRANSISTORS & DIODES & MEDIUM-POWER RECTIFIERS

Small-signal transistors

HIGH VOLTAGE 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)	C _{re} max. (pF)	V _{CEsat.} @ max. (V)	I _C /I _B (mA/mA)	f _T typ. (MHz)		
NPN											
BF620	–	50	1000	50/–	25/20	–	0.6	30/5	60	SOT89	
BF622	250	50	1000	50/–	25/20	–	0.6	30/5	60	SOT89	
BF720	–	50	1500	50/–	25/20	–	0.6	30/5	60	SOT223	
BF722	250	50	1500	50/–	25/20	–	0.6	30/5	60	SOT223	
BF820	–	50	250	50/–	25/20	–	0.6	30/5	60	SOT23	
BF820W	300 ¹⁾	50	200	50/–	25/20	–	0.6	30/5	60 ¹⁾	SOT323	
BF822	250	50	250	50/–	25/20	–	0.6	30/5	60	SOT23	
BF822W	250	50	200	50/–	25/20	–	0.6	30/5	60 ¹⁾	SOT323	
BSP19	350	1000	1500	40/–	10/20	–	1.3	50/4	70	SOT223	
BSP20	250	1000	1500	40/–	10/20	–	1.3	50/4	70	SOT223	
BSR19	140	600	250	60/250	10/5	–	0.25	50/5	100	SOT23	
BSR19A	160	600	250	80/250	10/5	–	0.2	50/5	100	SOT23	
BST39	350	1000	1000	40/160	20/10	–	0.5	50/4	70	SOT89	
BST40	250	1000	1000	40/160	20/10	–	0.5	50/4	70	SOT89	
PMBT5550	140	600	250	60/250	10/5	–	0.25	50/5	200	SOT23	
PMBT5551	160	600	250	80/250	10/5	–	0.2	50/5	100	SOT23	
PMBTA42	300	500	250	40/–	30/10	–	0.5	20/2	50	SOT23	
PMBTA43	200	500	250	40/–	30/10	–	0.5	20/2	50	SOT23	
PMST5550	140	600	200	60/250	10/5	–	0.25	50/5	100 ¹⁾	SOT323	
PMST5551	160	600	200	80/250	10/5	–	0.2	50/5	100 ¹⁾	SOT323	
PXTA42	300	500	1000	40/–	10/10	–	0.5	20/2	50	SOT89	
PXTA43	200	500	1000	40/–	10/10	–	0.5	20/2	50	SOT89	
PZT5551	160	60	1500	80/–	10/–	–	–	–	100	SOT223	
PZTA42	300	500	1500	40/–	10/10	–	0.5	20/2	50	SOT223	
PZTA44	400	300	1500	50/200	10/10	–	0.75	50/5	20 ¹⁾	SOT223	
PNP											
BF621	–	50	1000	50/–	25/20	–	0.8	30/5	60	SOT89	
BF623	250	50	1000	50/–	25/20	–	0.8	30/5	60	SOT89	
BF721	–	50	1500	50/–	25/20	–	0.8	30/5	60	SOT223	
BF723	250	50	1500	50/–	25/20	–	0.8	30/5	60	SOT223	
BF821	–	50	250	50/–	25/20	–	0.8	30/5	60	SOT23	
BF823	250	50	250	50/–	25/20	–	0.8	30/5	60	SOT23	
BSP15	200	1000	1500	30/150	10/50	–	2.5	50/5	15	SOT223	
BSP16	300	1000	1500	30/120	10/50	–	2.0	50/5	15	SOT223	
BSP20	250	1000	1500	40/–	20/10	–	0.5	50/4	70 ¹⁾	SOT223	
BSR20	120	600	250	40/180	10/5	–	0.5	50/5	100	SOT23	
BSR20A	150	600	250	60/240	10/5	–	0.5	50/5	100	SOT23	
BST15	200	1000	1000	30/150	50/10	–	2.5	50/5	15	SOT89	
BST16	300	1000	1000	30/120	50/10	–	2.0	50/5	15	SOT89	
PMBT5401	150	500	250	60/240	10/5	–	0.5	50/5	100	SOT23	
PMBTA92	300	500	250	40/–	10/10	–	0.5	20/2	50	SOT23	
PMBTA93	200	500	300	40/–	10/10	–	0.5	20/2	50	SOT23	
PMST5401	150	500	200	60/240	10/5	–	0.5	50/5	100 ¹⁾	SOT323	
PXTA92	300	500	1000	40/–	10/10	–	0.5	20/2	50	SOT89	
PXTA93	200	500	1000	40/–	10/10	–	0.5	20/2	50	SOT89	
PZT5401	150	600	1500	60/–	10/–	–	–	–	100	SOT223	
PZTA45	350	300	1500	50/200	10/10	–	0.75	50/5	20 ¹⁾	SOT223	

SMALL-SIGNAL TRANSISTORS & DIODES & MEDIUM-POWER RECTIFIERS

Small-signal transistors

HIGH VOLTAGE TRANSISTORS (CONTINUED)

SURFACE-MOUNT TYPES

type number	ratings			characteristics							package
	V_{CE0} max. (V)	I_C max. (mA)	P_{tot} max. (mW)	h_{FE} @ min./max.	I_C/V_{CE} (mA/V)	C_{re} max. (pF)	$V_{CEsat.}$ @ max. (V)	I_C/I_B (mA/mA)	f_T typ. (MHz)		
PNP											
PZTA92	300	500	1500	40/-	10/10	-	1.5	100/0.1	125	SOT223	
PZTA93	200	500	1500	40/-	10/10	-	1.5	100/0.1	125	SOT223	

¹⁾ minimum value

²⁾ V_{CER}

