

SOT-23 TRANSISTORS & DIODES

GENERAL PURPOSE TRANSISTORS (PNP)

Type	V _{CB0} Volts	V _{CE0} Volts	I _C mA	P _{tot} mW	h _{FE} min./max.	at I _C /V _{CE} mA/volts	V _{CE(sat)} max. at I _C /I _B Volts	f _T typ. MHz	
BC856A	80	65	100	350	110/220	2/5	0.3	10/0.5	150
BC856B	80	65	100	350	200/450	2/5	0.3	10/0.5	150
BCW89	80	60	100	350	120/260	2/5	0.3	10/0.5	150
FMMT3905	60	40	200	350	50/150	10/1	0.2	10/1.0	250
FMMT3906	60	40	200	350	100/300	10/1	0.2	10/1.0	300
FMMTA70	50	50	100	350	40/400	5/10	0.3	10/1.0	150
FMMT5087	50	50	100	350	250/800	0.1/5	0.3	10/1.0	100
BCW69	50	45	100	350	120/260	2/5	0.3	10/0.5	150
BCW70	50	45	100	350	215/500	2/5	0.3	10/0.5	150
BC857A	50	45	100	350	110/220	2/5	0.3	10/0.5	150
BC857B	50	45	100	350	200/450	2/5	0.3	10/0.5	150
BC857C	50	45	100	350	420/800	2/5	0.3	10/0.5	150
BC860A	50	45	100	350	110/220	2/5	0.25	10/0.5	300
BC860B	50	45	100	350	200/450	2/5	0.25	10/0.5	300
BC860C	50	45	100	350	420/800	2/5	0.25	10/0.5	300
BCX71G	45	45	200	350	120/220	2/5	0.25	10/0.25	180
BCX71H	45	45	200	350	180/310	2/5	0.25	10/0.25	180
BCX71J	45	45	200	350	250/460	2/5	0.25	10/0.25	180
BCX71K	45	45	200	350	380/630	2/5	0.25	10/0.25	180
BCW61A	32	32	200	350	120/220	2/5	0.25	10/0.25	180
BCW61B	32	32	200	350	180/310	2/5	0.25	10/0.25	180
BCW61C	32	32	200	350	250/460	2/5	0.25	10/0.25	180
BCW61D	32	32	200	350	380/630	2/5	0.25	10/0.25	180
FMMT4125	30	30	200	350	50/150	2/1	0.4	50/5	200
BC858A	30	30	100	350	110/220	2/5	0.3	10/0.5	150
BC858B	30	30	100	350	200/450	2/5	0.3	10/0.5	150
BC858C	30	30	100	350	420/800	2/5	0.3	10/0.5	150
BC859A	30	30	100	350	110/220	2/5	0.25	10/0.5	300
BC859B	30	30	100	350	200/450	2/5	0.25	10/0.5	300
BC859C	30	30	100	350	420/800	2/5	0.25	10/0.5	300
FMMT4126	25	25	200	350	120/360	2/1	0.4	50/5	250
BCW29	30	20	100	350	120/260	2/5	0.3	10/0.5	150
BCW30	30	20	100	350	215/500	2/5	0.3	10/0.5	150

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LOW NOISE TRANSISTORS

Type	V _{CB0} Volts	V _{CE0} Volts	I _C mA	P _{tot} mW	h _{FE}		V _{CE(sat)}		f _T typ. MHz
					min./max.	at I _C /V _{CE} mA/volts	max. at I _C /I _B Volts	mA	
NPN									
FMMT5209	50	50	50	350	100/300	0.1/5	3	0.2/5	30
FMMT5210	50	50	50	350	200/600	0.1/5	2	0.2/5	30
BC850B	50	45	100	350	200/450	2/5	3	0.2/5	300
BC850C	50	45	100	350	420/800	2/5	3	0.2/5	300
FMMT5088	35	30	50	350	300/900	0.1/5	3	0.1/5	50
BC849B	30	30	100	350	200/450	2/5	4	0.2/5	300
BC849C	30	30	100	350	420/800	2/5	4	0.2/5	300
FMMT5089	30	25	50	350	400/1200	0.1/5	2	0.1/5	50
PNP									
BC860A	50	45	100	350	125/250	2/5	3	0.2/5	300
BC860B	50	45	100	350	220/475	2/5	3	0.2/5	300
BC860C	50	45	100	350	420/800	2/5	3	0.2/5	300
BC859A	30	30	100	350	125/250	2/5	4	0.2/5	300
BC859B	30	30	100	350	270/475	2/5	4	0.2/5	300
BC859C	30	30	100	350	420/800	2/5	4	0.2/5	300

AVALANCHE TRANSISTOR (NPN)

Type	V _{CB0} V	V _{CE0} V	h _{FE} at		Peak† Collector Current I _{CM} A	P _{tot} at T _{amb} = 25°C mW	I _{SB} * at		f _T at	
			Min	I _C mA			A	V _C V	MHz	I _C mA
FMMT415	260	100	25	10	60	680	25	250	40	10

*Current in second breakdown.

†Maximum pulse width 20nsec.

Specifically designed to operate in the avalanche mode. Suitable for pulsing laser diodes and other applications requiring very fast edges.

SWITCHING TRANSISTORS (PNP)

Type	V _{CB0} Volts	V _{CE0} Volts	I _C mA	P _{tot} mW	h _{FE}		V _{CE(sat)}		f _T typ. MHz
					min./max.	at I _C /V _{CE} mA/volts	max. at I _C /I _B	mA	
BSS82B	60	60	800	350	40/120	150/10	0.4	150/15	200
BSS82C	60	60	800	350	100/300	150/10	0.4	150/15	200
FMMT2907A	60	60	600	350	100/300	150/10	0.4	150/15	200
FMMT2907	60	40	600	350	100/300	150/10	0.4	150/15	200
BSS80B	60	40	800	350	40/120	150/10	0.4	150/15	200
BSS80C	60	40	800	350	100/300	150/10	0.4	150/15	200
FMMT3905	60	40	200	350	50/150	10/1	0.2	10/1.0	250
FMMT3906	60	40	200	350	100/300	10/1	0.2	10/1.0	300
FMMT4402	40	40	600	350	50/150	150/1	0.4	150/15	200
FMMT4403	40	40	600	350	100/300	150/1	0.4	150/15	200
BSS69	40	40	100	350	50/150	10/1	0.25	10/1	200
BSS70	40	40	100	350	100/300	10/1	0.25	10/1	250
FMMT4125	30	30	200	350	50/150	2/1	0.4	50/5	200
FMMT4126	25	25	200	350	120/360	2/1	0.4	50/5	250
BSS65	12	12	100	350	40/150	30/0.5	0.15	10/1	400

VHF TRANSISTORS (NPN)

Type	V _{CB0} Volts	V _{CE0} Volts	I _C mA	P _{tot} mW	h _{FE}		N		f _T typ. MHz
					min./max.	at I _C /V _{CE} mA/volts	Typ. at f	dB	
FMMT918	30	15	100	350	20/-	3/1	6.0	60	600
BFQ31A	30	15	100	350	100/-	3/1	6.0	60	600
BFQ31	30	15	100	350	20/-	3/1	6.0	60	600
BFS17	30	15	25	350	25/150	2/1	4.5	500	1300