

# SMD Transistors SOT-23 Case 350mW

## Proelectron Series—Cont'd

TYPE NO.	DESCRIPTION	$V_{CE0}$	$V_{CE0}$	$V_{E0}$	$I_{C0}$	$V_{CB}$	$n_{FE}$		$V_{CE}$	$I_C$	$V_{CE}(SAT)$	$I_C$	$C_{ob}$	$f_T$	$f_{\beta}$	$t_{off}$	MARKING CODE	SIMILAR LEADED DEVICE
		(VOLTS)	(VOLTS)	(VOLTS)	(mA)	(VOLTS)	MIN	MAX	(VOLTS)	(mA)	(VOLTS)	(mA)	(pF)	(MHz)	(ns)	MIN		
BC858B	PNP LOW NOISE	30	30	5.0	15	30	220	475	5.0	2.0	0.65	100	4.5	150	10	—	3K	BC558B
BC858C	PNP LOW NOISE	30	30	5.0	15	30	420	800	5.0	2.0	0.65	100	4.5	150	10	—	3L	BC558C
BC859	PNP LOW NOISE	30	30	5.0	15	30	125	800	5.0	2.0	0.65	100	4.5	150	4.0	—	—	BC559
BC859A	PNP LOW NOISE	30	30	5.0	15	30	125	250	5.0	2.0	0.65	100	4.5	150	4.0	—	4A	BC559A
BC859B	PNP LOW NOISE	30	30	5.0	15	30	220	475	5.0	2.0	0.65	100	4.5	150	4.0	—	4B	BC559B
BC859C	PNP LOW NOISE	30	30	5.0	15	30	420	800	5.0	2.0	0.65	100	4.5	150	4.0	—	4C	BC559C
BC860	PNP LOW NOISE	50	45	5.0	15	30	125	800	5.0	2.0	0.65	100	4.5	150	3.0	—	—	BC560
BC860A	PNP LOW NOISE	50	45	5.0	15	30	125	250	5.0	2.0	0.65	100	4.5	150	3.0	—	4E	BC560A
BC860B	PNP LOW NOISE	50	45	5.0	15	30	230	475	5.0	2.0	0.65	100	4.5	150	3.0	—	4F	BC560B
BC860C	PNP LOW NOISE	50	45	5.0	15	30	420	800	5.0	2.0	0.65	100	4.5	150	3.0	—	4G	BC560C
BCF29	PNP LOW NOISE	32	32	5.0	100	32	120	260	5.0	2.0	0.30	10	4.5	150	4.0	—	C7	—
BCF30	PNP LOW NOISE	32	32	5.0	100	32	215	500	5.0	2.0	0.30	10	4.5	150	4.0	—	C8	—
BCF32	NPN LOW NOISE	32	32	5.0	100	32	200	450	5.0	2.0	0.25	10	2.5	300	4.0	—	D7	—
BCF33	NPN LOW NOISE	32	320	5.0	100	32	420	800	5.0	2.05	0.25	105	2.5	300	4.0	—	D8	—
BCF70	PNP LOW NOISE	50	45	5.0	100	20	215	500	5.0	2.0	0.30	10	4.5	150	4.0	—	H7	—
BCF81	NPN LOW NOISE	50	45	5.0	100	20	420	800	5.0	2.0	0.25	10	2.5	300	4.0	—	K9	—
BCV26	PNP DARLINGTON	40	30	10	100	30	20,000	—	5.0	100	1.0	100	3.5	220	—	—	FD	MPSA64
BCV27	NPN DARLINGTON	40	30	10	100	30	20,000	—	5.0	100	1.0	100	3.5	220	—	—	FF	MPSA14
BCV46	PNP DARLINGTON	80	60	10	100	30	10,000	—	5.0	100	1.0	100	3.5	220	—	—	FE	MPSA77
BCV47	NPN DARLINGTON	80	60	10	100	30	10,000	—	5.0	100	1.0	100	3.5	220	—	—	FG	MPSA27
BCV71	NPN LOW NOISE	80	60	5.0	100	20	110	220	5.0	2.0	0.25	10	2.5	300	10	—	K7	—
BCV72	NPN LOW NOISE	80	60	5.0	100	20	200	450	5.0	2.0	0.25	10	2.5	300	10	—	K8	—
BCW29	PNP LOW NOISE	32	32	5.0	100	32	120	260	5.0	2.0	0.30	10	4.5	150	10	—	C1	—
BCW30	PNP LOW NOISE	32	32	5.0	100	32	215	500	5.0	2.0	0.30	10	4.5	150	10	—	C2	—
BCW31	NPN LOW NOISE	32	32	5.0	100	32	110	220	5.0	2.0	0.25	10	2.5	300	10	—	D1	—
BCW32	NPN LOW NOISE	32	32	5.0	100	32	200	450	5.0	2.0	0.25	10	2.5	300	10	—	D2	—
BCW33	NPN LOW NOISE	32	32	5.0	100	32	420	800	5.0	2.0	0.25	10	2.5	300	10	—	D3	—
BCW60	NPN LOW NOISE	32*	32	5.0	20	32	130	630	5.0	2.0	0.55	50	2.5	250	6.0	—	—	—
BCW60A	NPN LOW NOISE	32*	32	5.0	20	32	120	220	5.0	2.0	0.55	50	2.5	250	6.0	—	AA	—
BCW60B	NPN LOW NOISE	32*	32	5.0	20*	32	180	310	5.0	2.0	0.55	50	2.5	250	6.0	—	AB	—
BCW60C	NPN LOW NOISE	32*	32	5.0	20*	32	250	460	5.0	2.0	0.55	50	2.5	250	6.0	—	AC	—
BCW60D	NPN LOW NOISE	32*	32	5.0	20*	32	380	630	5.0	2.0	0.55	50	2.5	250	6.0	—	AD	—
BCW61	PNP LOW NOISE	32*	32	5.0	20*	32	120	630	5.0	2.0	0.55	50	4.5	180	6.0	—	—	—
BCW61A	PNP LOW NOISE	32*	32	5.0	20*	32	120	220	5.0	2.0	0.55	50	4.5	180	6.0	—	BA	—
BCW61B	PNP LOW NOISE	32*	32	5.0	20*	32	180	310	5.0	2.0	0.55	50	4.5	180	6.0	—	BB	—
BCW61C	PNP LOW NOISE	32*	32	5.0	20*	32	250	460	5.0	2.0	0.55	50	4.5	180	6.0	—	BC	—
BCW61D	PNP LOW NOISE	32*	32	5.0	20*	32	380	630	5.0	2.0	0.55	50	4.5	180	6.0	—	BD	—
BCW65	NPN HIGH CURRENT	60	32	5.0	20	32	100	630	1.0	100	0.70	500	6.0	170	—	—	—	—
BCW65A	NPN HIGH CURRENT	60	32	5.0	20	32	100	250	1.0	100	0.70	500	6.0	170	—	—	EA	—
BCW65B	NPN HIGH CURRENT	60	32	5.0	20	32	160	400	1.0	100	0.70	500	6.0	170	—	—	EB	—
BCW65C	NPN HIGH CURRENT	60	32	5.0	20	32	250	630	1.0	100	0.70	500	6.0	170	—	—	EC	—
BCW66	NPN HIGH CURRENT	75	45	5.0	20	45	100	630	1.0	100	0.70	500	6.0	170	—	—	—	—
BCW66F	NPN HIGH CURRENT	75	45	5.0	20	45	100	250	1.0	100	0.70	500	6.0	170	—	—	EF	—
BCW66G	NPN HIGH CURRENT	75	45	5.0	20	45	160	400	1.0	100	0.70	500	6.0	170	—	—	EG	—
BCW66H	NPN HIGH CURRENT	75	45	5.0	20	45	250	630	1.0	100	0.70	500	6.0	170	—	—	EH	—
BCW67	PNP HIGH CURRENT	45	32	5.0	20	32	100	630	1.0	100	0.70	500	6.0	200	—	—	—	—
BCW67A	PNP HIGH CURRENT	45	32	5.0	20	32	100	250	1.0	100	0.70	500	6.0	200	—	—	DA	—
BCW67B	PNP HIGH CURRENT	45	32	5.0	20	32	160	400	1.0	100	0.70	500	6.0	200	—	—	DB	—
BCW67C	PNP HIGH CURRENT	45	32	5.0	20	32	250	630	1.0	100	0.70	500	6.0	200	—	—	DC	—
BCW68	PNP HIGH CURRENT	60	45	5.0	20	45	100	630	1.0	100	0.70	500	6.0	200	—	—	—	—
BCW68F	PNP HIGH CURRENT	60	45	5.0	20	45	100	250	1.0	100	0.70	500	6.0	200	—	—	DF	—
BCW68G	PNP HIGH CURRENT	60	45	5.0	20	45	160	400	1.0	100	0.70	500	6.0	200	—	—	DG	—
BCW68H	PNP HIGH CURRENT	60	45	5.0	20	45	250	630	1.0	100	0.70	500	6.0	200	—	—	DH	—
BCW69	PNP LOW NOISE	50	45	5.0	100	20	120	260	5.0	2.0	0.30	10	4.5	150	10	—	H1	—
BCW70	PNP LOW NOISE	50	45	5.0	100	20	215	500	5.0	2.0	0.30	10	4.5	150	10	—	H2	—
BCW71	NPN LOW NOISE	50	45	5.0	100	20	110	220	5.0	2.0	0.25	10	2.5	300	10	—	K1	—
BCW72	NPN LOW NOISE	50	45	5.0	100	20	200	450	5.0	2.0	0.25	10	2.5	300	10	—	K2	—
BCW81	NPN LOW NOISE	50	45	5.0	100	20	420	800	5.0	2.0	0.25	10	2.5	300	10	—	K3	—
BCW89	PNP LOW NOISE	80	60	5.0	100	20	120	260	5.0	2.0	0.30	10	4.5	150	10	—	H3	—
BCX17	PNP HIGH CURRENT	50*	45	5.0	100	20	100	600	1.0	100	0.62	500	8.0	100	—	—	T1	—
BCX18	PNP HIGH CURRENT	50*	25	5.0	100	20	100	600	1.0	100	0.62	500	8.0	100	—	—	T2	—
BCX19	NPN HIGH CURRENT	50*	45	5.0	100	20	100	600	1.0	100	0.62	500	5.0	200	—	—	U1	—
BCX20	NPN HIGH CURRENT	30*	25	5.0	100	20	100	600	1.0	100	0.62	500	5.0	200	—	—	U2	—
BCX70	NPN LOW NOISE	45	45	5.0	20*	45	120	630	5.0	2.0	0.55	50	2.5	250	6.0	—	—	—
BCX70G	NPN LOW NOISE	45*	45	5.0	20*	45	120	220	5.0	2.0	0.55	50	2.5	250	6.0	—	AG	—
BCX70H	NPN LOW NOISE	45*	45	5.0	20*	45	180	310	5.0	2.0	0.55	50	2.5	250	6.0	—	AH	—
BCX70J	NPN LOW NOISE	45*	45	5.0	20*	45	250	460	5.0	2.0	0.55	50	2.5	250	6.0	—	AJ	—
BCX70K	NPN LOW NOISE	45*	45	5.0	20*	45	380	630	5.0	2.0	0.55	50	2.5	250	6.0	—	AK	—
BCX71	PNP LOW NOISE	45*	45	5.0	20*	45	120	630	5.0	2.0	0.55	50	4.5	180	6.0	—	—	—
BCX71G	PNP LOW NOISE	45*	45	5.0	20*	45	120	220	5.0	2.0	0.55	50	4.5	180	6.0	—	BG	—
BCX71H	PNP LOW NOISE	45*	45	5.0	20*	45	180	310	5.0	2.0	0.55	50	4.5	180	6.0	—	BH	—
BCX71J	PNP LOW NOISE	45*	45	5.0	20*	45	250	460	5.0	2.0	0.55	50	4.5	180	6.0	—	BJ	—
BCX71K	PNP LOW NOISE	45*	45	5.0	20*	45	380	630	5.0	2.0	0.55	50	4.5	180	6.0	—	BK	—
BSR13	NPN AMPL. SWITCH	60	40	5.0	30	50	100	300	10	150	1.60	500	8.0	250MIN	—	285	U7	2N2222A
BSR14	NPN AMPL. SWITCH	75	40	6.0	10	60	100	300	10	150	1.00	500	8.0	300MIN	—	285	U8	2N2222A
BSR15	PNP AMPL. SWITCH	60	40	5.0	20	50	100	300	10	150	1.60	500	8.0	200MIN	—	100	T7	2N2907A
BSR16	PNP AMPL. SWITCH	60	40	5.0	10	50	100	300	10	150	1.60	500	8.0	200MIN	—	100	T8	2N2907A
BSR17	NPN AMPL. SWITCH	60	40	6.0	50	30	50	150	1.0	10	0.30	50	4.0	250MIN	—	225	U9	—
BSR17A	NPN AMPL. SWITCH	60	40	6.0	50	30	100	300	1.0	10	0.30	50	4.0	300MIN	—	250	U92	