



Transistors

SOT-23 Case Proelectron Series 350mW (Continued)

TYPE NO.	DESCRIPTION	BV _{CBO}	BV _{CEO}	BV _{EBO}	I _{CBO} @ V _{CB}		h _{FE} @ V _{CE}		V _{CE(SAT)} @I _C		C _{ob} (pF) TYP	f _T (MHz) TYP	NF	t _{off}	MARK. CODE	SIMILAR LEADED DEVICES		
		(V) MIN	(V) MIN	(V) MIN	(nA) MAX	(V) MAX	MIN	MAX	(V) MAX	(mA) MAX			(dB) MAX	(ns) MAX				
BCW60	NPN Low Noise	32*	32	5.0	20*	32	120	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	30*	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	30	5.0	30	50	100	300	10	150	1.60	500	80*	250*	-	285	U7	2N2222A
BSR14	NPN AMPL/Switch	75	40	6.0	10	60	100	300	10	150	1.00	500	80*	300*	-	285	U8	2N2222A
BSR15	PNP AMPL/Switch	60	40	5.0	20	50	100	300	10	150	1.60	500	80*	200*	-	100	T7	2N2907A
BSR16	PNP AMPL/Switch	60	60	5.0	10	50	100	300	10	150	1.60	500	80*	200*	-	100	T8	2N2907A
BSR17	NPN AMPL/Switch	60	40	6.0	50†	30	50	150	1.0	10	0.30	50	40*	250*	-	225	U9	-
BSR17A	NPN AMPL/Switch	60	40	6.0	50†	30	100	300	1.0	10	0.30	50	40*	300*	-	250	U92	-
BSV52	NPN Sat Switch	20	12	5.0	100	10	40	120	1.0	10	0.40	50	40*	500	-	18	B2	2N2369A

*BV_{CES}

†ICES
†ICEV

*MAX *MIN

SELECT
GUIDE

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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Product End of Life Notification

PDN ID:	PDN01240
Notification Date:	8/02/22
Last Buy Date:	2/02/23
Last Shipment Date	8/02/23

Summary: The following small signal transistors are discontinued and now classified as of End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

*** All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.**

Central Part Number	Suggested Replacement
BCW81 TR	N/A
BCX19 TR	N/A
BCX22	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit <https://my.centrasemi.com/submit-inquiry?type=ER> to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.