



2-6A Up to 65W TO-66 Plastic Packages

Device Type	Polarity	Max Ratings at Tcase = 25°C						Characteristics Tcase = 25°C						
		V _{CE}	V _{CEO}	V _{EB0}	cont IC	P _{tot} W	hFE			V _{CE(sat)}			f _T min. MHz	
		V	V	V	A		IC	min.	max.	IC	I _B	max. V		
BD239	NPN	55	45	5	2	30	1	15	—	1	0.2	0.7	3	
BD239A	NPN	70	60	5	2	30	1	15	—	1	0.2	0.7	3	
BD239B	NPN	90	80	5	2	30	1	15	—	1	0.2	0.7	3	
BD239C	NPN	115	100	5	2	30	1	15	—	1	0.2	0.7	3	
BD240	PNP	55	45	5	2	30	1	15	—	1	0.2	0.7	3	
BD240A	PNP	70	60	5	2	30	1	15	—	1	0.2	0.7	3	
BD240B	PNP	90	80	5	2	30	1	15	—	1	0.2	0.7	3	
BD240C	PNP	115	100	5	2	30	1	15	—	1	0.2	0.7	3	
BD241	NPN	55	45	5	3	40	3	10	—	3	0.6	1.2	3	
BD241A	NPN	70	60	5	3	40	3	10	—	3	0.6	1.2	3	
BD241B	NPN	90	80	5	3	40	3	10	—	3	0.6	1.2	3	
BD241C	NPN	115	100	5	3	40	3	10	—	3	0.6	1.2	3	
BD242	PNP	55	45	5	3	40	3	10	—	3	0.6	1.2	3	
BD242A	PNP	70	60	5	3	40	3	10	—	3	0.6	1.2	3	
BD242B	PNP	90	80	5	3	40	3	10	—	3	0.6	1.2	3	
BD242C	PNP	115	100	5	3	40	3	10	—	3	0.6	1.2	3	
BD243	NPN	55	45	5	6	65	3	15	—	6	1.0	1.5	3	
BD243A	NPN	70	60	5	6	65	3	15	—	6	1.0	1.5	3	
BD243B	NPN	90	80	5	6	65	3	15	—	6	1.0	1.5	3	
BD243C	NPN	115	100	5	6	65	3	15	—	6	1.0	1.5	3	
BD244	PNP	55	45	5	6	65	3	15	—	6	1.0	1.5	3	
BD244A	PNP	70	60	5	6	65	3	15	—	6	1.0	1.5	3	
BD244B	PNP	90	80	5	6	65	3	15	—	6	1.0	1.5	3	
BD244C	PNP	115	100	5	6	65	3	15	—	6	1.0	1.5	3	

15A, 85W TO-3 Plastic Packages SUPER SPECIFICATION

BD545	NPN	40	40	5	15	85	10	10	—	10	2	1	3
BD545A	NPN	60	60	5	15	85	10	10	—	10	2	1	3
BD545B	NPN	80	80	5	15	85	10	10	—	10	2	1	3
BD545C	NPN	100	100	5	15	85	10	10	—	10	2	1	3
BD545D	NPN	120	120	5	15	85	10	10	—	10	2	1	3
BD546	PNP	40	40	5	15	85	10	10	—	10	2	1	3
BD546A	PNP	60	60	5	15	85	10	10	—	10	2	1	3
BD546B	PNP	80	80	5	15	85	10	10	—	10	2	1	3
BD546C	PNP	100	100	5	15	85	10	10	—	10	2	1	3
BD546D	PNP	120	120	5	15	85	10	10	—	10	2	1	3

10-25A Up to 125W TO-3 Plastic Packages

Device Type	Polarity	Max Ratings at Tcase=25°C					Characteristics Tcase=25°C							fT min. MHz
		VCE	VCEO	VEBO	IC cont	Ptot W	hFE			VCE(sat)				
		V	V	V	A		IC	IB	max.					
		V	V	V	A		A	min.	max.	V	V			
BD245	NPN	55	45	5	10	80	3	20	—	10	2.5	4	3	
BD245A	NPN	70	60	5	10	80	3	20	—	10	2.5	4	3	
BD245B	NPN	90	80	5	10	80	3	20	—	10	2.5	4	3	
BD245C	NPN	115	100	5	10	80	3	20	—	10	2.5	4	3	
BD246	PNP	55	45	5	10	80	3	20	—	10	2.5	4	3	
BD246A	PNP	70	60	5	10	80	3	20	—	10	2.5	4	3	
BD246B	PNP	90	80	5	10	80	3	20	—	10	2.5	4	3	
BD246C	PNP	115	100	5	10	80	3	20	—	10	2.5	4	3	
BD249	NPN	55	45	5	25	125	15	10	—	25	5.0	4	3	
BD249A	NPN	70	60	5	25	125	15	10	—	25	5.0	4	3	
BD249B	NPN	90	80	5	25	125	15	10	—	25	5.0	4	3	
BD249C	NPN	115	100	5	25	125	15	10	—	25	5.0	4	3	
BD250	PNP	55	45	5	25	125	15	10	—	25	5.0	4	3	
BD250A	PNP	70	60	5	25	125	15	10	—	25	5.0	4	3	
BD250B	PNP	90	80	5	25	125	15	10	—	25	5.0	4	3	
BD250C	PNP	115	100	5	25	125	15	10	—	25	5.0	4	3	

5-8A Up to 70W TO-66 Plastic Packages SUPER SPECIFICATION

BD539	NPN	40	40	5	5	45	3	12	—	3	0.375	0.8	3
BD539A	NPN	60	60	5	5	45	3	12	—	3	0.375	0.8	3
BD539B	NPN	80	80	5	5	45	3	12	—	3	0.375	0.8	3
BD539C	NPN	100	100	5	5	45	3	12	—	3	0.375	0.8	3
BD539D	NPN	120	120	5	5	45	3	12	—	3	0.375	0.8	3
BD540	PNP	40	40	5	5	45	3	12	—	3	0.375	0.8	3
BD540A	PNP	60	60	5	5	45	3	12	—	3	0.375	0.8	3
BD540B	PNP	80	80	5	5	45	3	12	—	3	0.375	0.8	3
BD540C	PNP	100	100	5	5	45	3	12	—	3	0.375	0.8	3
BD540D	PNP	120	120	5	5	45	3	12	—	3	0.375	0.8	3
BD543	NPN	40	40	5	8	70	5	15	—	8	1.6	1	3
BD543A	NPN	60	60	5	8	70	5	15	—	8	1.6	1	3
BD543B	NPN	80	80	5	8	70	5	15	—	8	1.6	1	3
BD543C	NPN	100	100	5	8	70	5	15	—	8	1.6	1	3
BD543D	NPN	120	120	5	8	70	5	15	—	8	1.6	1	3
BD544	PNP	40	40	5	8	70	5	15	—	8	1.6	1	3
BD544A	PNP	60	60	5	8	70	5	15	—	8	1.6	1	3
BD544B	PNP	80	80	5	8	70	5	15	—	8	1.6	1	3
BD544C	PNP	100	100	5	8	70	5	15	—	8	1.6	1	3
BD544D	PNP	120	120	5	8	70	5	15	—	8	1.6	1	3