

POWER DEVICES

T-33-01

Bharat Electronics Power Devices are enjoying a wide acceptance in consumer industrial and defence electronics applications. As a guide for selection of devices, this catalogue summarises the maximum ratings and electrical characteristics and encapsulation.

For further details, please refer to the technical data sheet on individual types.

TO-220 PACKAGE SERIES

Type	Polarity	Pd Tc=25°C (W)	VCE0 SUS (V)	Ic (A)	hFE	VCE (V)	Ic (A)	fT (min) MHz	VCE (V)	Ic (A)	VCEsat (max)			Typical application
											V	Ic	Ib	
BEL 940	PNP	25	150	1.5	40-140	10	0.5	4*	10	0.5	1.5	0.5	0.05	Vertical & Audio Output stages in B/W & CTV
BEL536	PNP	20	120	1.5	40-250	5	0.3	40*	1	0.1	1.0	1.0	0.1	-do-
BEL2073	NPN	25	150	1.5	40-140	10	0.5	4*	10	0.5	1.5	0.5	0.05	-do-
BEL381K/L	NPN	20	120	1.5	40-250	5	0.3	45*	1	0.1	0.3	1	0.1	-do-
BEL407	NPN	60	150	7.0	—	—	—	10	10	0.5	1.0	5	0.5	14" B/W TV - Horizontal Output
BEL2233	NPN	40	60	4.0	20(Min)	5	4	8*	5	0.5	1.0	4	0.4	-do-
BEL406	NPN	60	200	7.0	—	—	—	10	10	0.5	1.0	5	0.5	SMPS
BEL3055**	NPN	75	60	10.0	20-70	4	4	0.8	4	0.5	1.0	4	0.4	Inverters, Amplifiers PSU, PA Systems
BEL149	NPN	40	30	6.0	90-200	1	3	3*	5	0.5	0.23	4	0.4	PA Systems
BEL866B	NPN	40	100	7.0	60-260	2	3	30*	10	0.5	0.7	5	0.25	General purpose
BEL880	NPN	30	60	3.0	60-300	5	0.5	3*	5	0.5	1.0	3	0.3	General purpose

* Typical values

** Under development

TO-220 PACKAGE SERIES (contd.)

Type	Polarity	Pd Tc=25°C (W)	VCE0 SUS (V)	Ic (A)	hFE	VCE (V)	Ic (A)	VCEsat (max) (V)	Ic (A)	Ib (A)	hFE	(min)@ f=1KHz		Typical application
												VCE (V)	Ic (A)	
TIP 32A	PNP	40	60	3	10-50	4	3	1.2	3	0.375	20	10	0.5	Linear & Switching applications
TIP 41	NPN	65	40	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 41A	NPN	65	60	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 41B	NPN	65	80	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 41C	NPN	65	100	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 42	PNP	65	40	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 42A	PNP	65	60	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 42B	PNP	65	80	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 42C	PNP	65	100	6	15-75	4	3	1.5	6	0.6	20	10	0.5	-do-
TIP 47	NPN	40	250	1	10(MIN)	10	1	1	1	0.2	25	10	0.2	-do-
TIP 48	NPN	40	300	1	10(MIN)	10	1	1	1	0.2	25	10	0.2	-do-
TIP 49	NPN	40	350	1	10(MIN)	10	1	1	1	0.2	25	10	0.2	-do-
TIP 50	NPN	40	400	1	10(MIN)	10	1	1	1	0.2	25	10	0.2	-do-