

- These Ic can handle large current (up to 30 or 50 Amps) yet the switching speed is very high.
- Efficient parallel operation.
- Motor speed controls, inverter and chopper use.

Device type	V _{CBO} volts	V _{CEO} volts	V _{CEO} (sus) volts	I _c cont. amps.	P _c watts	h _{FE} min.	I _c amps.	V _{CE} volts	Switching time (Max.)	Package	Net weight grams
						t _{on} μsec.	t _{stg} μsec.	t _r μsec.			
2SC2930	650	400	400	30	200	15	10	5	1.0 3.0 1.0	TO-3	19
2SC2443	650	450	450	50	400	10	40	5	2.0 7.0 1.0	MD-18	40

11 High power darlington transistors

- Best suited for motor control applications.
- Low saturation voltage
- Ic cont. is as large as 50 Amps and DC current gain is high.
- Permit the control circuits to be simplified.

Device type	V _{CBO} volts	V _{CEO} volts	V _{CEO} (sus) volts	I _c cont. amps.	P _c watts	h _{FE} min.	I _c amps.	V _{CE} volts	Switching time (Max.)	Package	Net weight grams	Equivalent circuit (Page 40)
						t _{on} μsec.	t _{stg} μsec.	t _r μsec.				
ET125	400	400	300	50	300	200	50	5	2 10 2.5	MD-18	40	Fig. B6
2SD806	650	650	450	50	400	100	50	5	3 12 4	MD-18	53	Fig. B6

12 Building block transistors

- Suitable for motor control applications.
- High voltage, large current capacity
- V_{CEO} : 300—1000 V, I_c : 100—500 A
- Easily connected in parallel and control currents up to 1200 A.

Device type	V _{CBO} volts	V _{CEO} volts	V _{CEO} (sus) volts	I _c cont. amps.	P _c watts	h _{FE} min.	I _c amps.	V _{CE} volts	Switching time (Max.)	Package	Net weight grams	Equivalent circuit (Page 40)
						t _{on} μsec.	t _{stg} μsec.	t _r μsec.				
ET188	400	400	300	100	600	200	100	5	2 12 3	BBTII	145	Fig. B3
ET127	600	600	450	100	960	100	100	5	4 10 3	BBT	200	Fig. B9
2SC2770	600	600	450	100	960	8	60	5	4 8 3	BBT	200	Fig. A2
ETN01-055	600	600	550	200	1500	8	120	5	2 8 2	BBTIII	270	Fig. A4
ETN31-055	600	600	550	200	1500	70	200	5	2 12 3	BBTIII	270	Fig. B9
ETM36-030	400	400	320	200	1000	150	200	5	2.0 10.0 1.2	BBTIII	270	Fig. B4
ETN36-030	400	400	320	300	1500	150	300	5	2.0 10.0 1.2	BBTIII	270	Fig. B4
ET1257	1000	1000	1000*	200	1500	4	120	5	— — —	BBTIII	450	Fig. A4
1D200A-020	300	300	200	200	800	100	200	5	2 12 3	BBTII	145	Fig. B6
1D500A-030	400	400	300	500	2500	500	500	2	2 12 4	BBTIV	365	Fig. B19

* : V_{CEX} (sus)

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