

Power Transistor Modules

600 volts class high hFE power transistor modules

Device type	VCBO Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _j =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
2DI30M-050	600	450	30	250	750	30	2.5	3.0	8.0	3.0	M208	175
2DI50M-050	600	450	50	310	750	50	2.5	3.0	8.0	3.0	M208	175
2DI75M-050	600	450	75	350	750	75	2.5	3.0	8.0	3.0	M208	175
2DI100M-050	600	450	100	620	1000	100	2.5	3.0	8.0	3.0	M205	340
2DI100MA-050	600	450	100	620	1000	100	2.5	3.0	8.0	2.0	M203	450
2DI150M-050	600	450	150	690	1500	150	2.5	3.0	8.0	3.0	M205	340
2DI150MA-050	600	450	150	690	1500	150	2.5	3.0	8.0	2.0	M203	450
2DI200M-050	600	450	200	800	2000	200	2.5	3.0	8.0	2.0	M210	470
1DI300M-050	600	450	300	1380	3000	300	2.5	5.5	8.0	2.0	M109	470
1DI400M-050	600	450	400	1500	2000	400	2.5	8.5	8.0	2.0	M109	470

600 volts class 6 in one-package high hFE power transistor modules

Device type	VCBO Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _j =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
6DI30M-050	600	450	30	200	750	30	2.5	3.0	8.0	3.0	M607	235
6DI30MA-050	600	450	30	150	750	30	2.5	3.0	8.0	3.0	M603	450
6DI50M-050	600	450	50	310	750	50	2.5	3.0	8.0	3.0	M609	630
6DI50MA-050	600	450	50	230	750	50	2.5	3.0	8.0	3.0	M603	450
6DI75M-050	600	450	75	350	750	75	2.5	3.0	8.0	3.0	M609	630
6DI75MA-050	600	450	75	350	750	75	2.5	3.0	8.0	3.0	M603	450
6DI100M-050	600	450	100	400	1000	100	2.5	4.0	8.0	3.0	M610	750

600 volts class high hFE power transistor modules for motor braking in inveter using

Device type	VCBO Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _j =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
1DI30MA-050	600	450	30	200	750	30	2.5	3.0	8.0	3.0	M102	100
1DI50MA-050	600	450	50	310	750	50	2.5	3.0	8.0	3.0	M102	100
1DI200MA-050	600	450	200	1000	2000	200	2.5	3.0	8.0	3.0	M104	450



Power Transistor Modules

1200 volts class high hFE power transistor modules

Device type	V _{CBO} Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _J =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
2DI50M-120	1200	1200	50	310	500	50	4	3.5	15.0	3.0	M204	175
2DI75M-120	1200	1200	75	500	750	75	4	3.5	15.0	3.0	M209	270
2DI100M-120	1200	1200	100	800	1000	100	4	7.0	15.0	3.0	M210	430
2DI150M-120	1200	1200	150	1000	1500	150	4	7.0	15.0	3.0	M210	430
1DI200M-120	1200	1200	200	1400	1000	200	4	7.0	15.0	3.0	M109	470
1DI300M-120	1200	1200	300	2000	1500	300	4	7.0	15.0	3.0	M109	470

1200 volts class 6 in one-package high hFE power transistor modules

Device type	V _{CBO} Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _J =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
6DI15M-120	1200	1200	15	150	150	15	3	3.5	15.0	3.0	M607	235
6DI30M-120	1200	1200	30	300	300	30	4	3.5	15.0	3.0	M613	390
6DI50M-120	1200	1200	50	310	500	50	4	3.5	15.0	3.0	M609	630

Z series high-speed switching 1000 volts class power transistor modules

Device type	VCBO Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _J =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	ton μsec.	tstg μsec.	tf μsec.		
2DI30Z-100	1000	1000	30	300	100	30	5	2.5	12.0	2.0	M204	175
2DI50Z-100	1000	1000	50	400	100	50	5	2.5	12.0	2.0	M204	175
2DI75Z-100	1000	1000	75	500	100	75	5	2.5	12.0	2.0	M209	270
2DI100Z-100	1000	1000	100	800	100	100	5	2.5	12.0	2.0	M210	470
2DI150Z-100	1000	1000	150	1000	100	150	5	2.5	12.0	2.0	M210	470
1DI200Z-100	1000	1000	200	1400	100	200	5	2.5	12.0	2.0	M106	460
1DI300Z-100	1000	1000	300	2000	100	300	5	2.5	12.0	2.0	M106	460

Z series high-speed switching 1200 volts class power transistor modules

Device type	VCBO Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _J =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	ton μsec.	tstg μsec.	tf μsec.		
2DI30Z-120	1200	1200	30	300	100	30	5	3.0	15.0	2.0	M204	175
2DI50Z-120	1200	1200	50	400	100	50	5	3.0	15.0	2.0	M204	175
2DI75Z-120	1200	1200	75	500	100	75	5	3.0	15.0	2.0	M209	270
2DI100Z-120	1200	1200	100	800	100	100	5	3.0	15.0	2.0	M210	470
2DI150Z-120	1200	1200	150	1000	100	150	5	3.0	15.0	2.0	M210	470
1DI200Z-120	1200	1200	200	1400	100	200	5	3.0	15.0	2.0	M106	460
1DI300Z-120	1200	1200	300	2000	100	300	5	3.0	15.0	2.0	M106	460

Z series high-speed switching 1200 volts class 6 in one-package power transistor modules

Device type	VCBO Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _J =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	ton μsec.	tstg μsec.	tf μsec.		
6DI30Z-120	1200	1200	30	230	75	30	2.8	3.0	15.0	2.0	M606	450
6DI50Z-120	1200	1200	50	300	75	50	2.8	3.0	15.0	2.0	M606	450

Z series high-speed switching 1400 volts class power transistor modules

Device type	VCBO Volts	V _{CEO} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _J =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	ton μsec.	tstg μsec.	tf μsec.		
2DI50Z-140	1400	1200	50	400	75	50	2.8	3.0	15.0	2.0	M204	175
2DI75Z-140	1400	1200	75	500	75	75	2.8	3.0	15.0	2.0	M209	270
2DI100Z-140	1400	1200	100	800	75	100	2.8	3.0	15.0	2.0	M210	470
2DI150Z-140	1400	1200	150	1000	75	150	2.8	3.0	15.0	2.0	M210	470
1DI300Z-140	1400	1200	300	2000	75	300	2.8	3.0	15.0	2.0	M106	460



Power Transistor Modules

Power transistor modules with zener diode for snubber circuit

Device type	V _{CB0} Volts	V _{CE0} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _j =125°C)			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
1DI300MN-050	600	450	300	1380	3000	300	2.5	5.5	8.0	2.0	M115	430
1DI400MN-050	600	450	400	1500	2000	400	2.5	8.5	8.0	2.0	M115	430
1DI400MP-050	600	450	400	1500	2000	400	2.5	8.5	8.0	2.0	M114	430
1DI300MN-120	1200	900	300	2000	1500	300	4.0	7.0	15.0	3.0	M118	430
1DI300MP-120	1200	900	300	2000	1500	300	4.0	7.0	15.0	3.0	M117	430
1DI400MN-120	1200	900	400	3000	2000	400	4.0	3.0	15.0	3.0	M118	430
1DI400MP-120	1200	900	400	3000	2000	400	4.0	3.0	15.0	3.0	M117	430
1DI200ZN-120	1200	1200 *	200	1400	100	200	5.0	3.0	15.0	2.0	M115	430
1DI200ZP-120	1200	1200 *	200	1400	100	200	5.0	3.0	15.0	2.0	M114	430
1DI300ZN-120	1200	1200 *	300	2000	100	300	5.0	3.0	15.0	2.0	M115	430
1DI300ZP-120	1200	1200 *	300	2000	100	300	5.0	3.0	15.0	2.0	M114	430

*V_{CEX}(sus)

Single in-line package / 6 in one-package power transistor modules

Device type	V _{CB0} Volts	V _{CE0} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (T _j =125°C)*			Switching time(Max.)			Package	Net mass Grams
					(Min.)	I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
6DI10MS-050	600	450	10	50	100	10	2.0	2.0	8.0	2.0	M615	65
6DI15S-050	600	450	15	60	100	15	5.0	1.0	12.0	2.0	M614	40
6DI15MS-050	600	450	15	60	150	15	2.5	2.0	8.0	2.0	M615	65
6DI20MS-050	600	450	20	80	200	20	2.5	2.0	8.0	2.0	M615	65

* 6DI15S-050: T_j= 25°C

600 volts class power transistor modules for DC chopper

Device type	V _{CB0}	V _{CEO} (sus)	I _c Cont.	P _c	h _{FE} (Min.)			Switching time(Max.)			Package	Net mass Grams
	Volts	Volts	Amps.	Watts		I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
1DI75E-055	600	550	75	350	70	75	5.0	3.0	12.0	4.0	M204	175
1DI200E-055	600	550	200	1000	70	200	5.0	2.0	12.0	3.0	M207	550
1DI200K-055	600	550	200	1000	70	200	5.0	2.0	12.0	3.0	M207	550

1000 volts class power transistor modules for DC chopper

Device type	V _{CB0}	V _{CEO} (sus)	I _c Cont.	P _c	h _{FE} (Min.)			Switching time(Max.)			Package	Net mass Grams
	Volts	Volts	Amps.	Watts		I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
1DI75E-100	1000	1000	75	500	100	75	5.0	2.5	15.0	3.0	M206	265
1DI75F-100	1000	1000	75	350	100	75	5.0	2.5	15.0	3.0	M206	265

1200 volts class power transistor modules for DC chopper

Device type	V _{CB0}	V _{CEO} (sus)	I _c Cont.	P _c	h _{FE} (Min.)			Switching time(Max.)			Package	Net mass Grams
	Volts	Volts	Amps.	Watts		I _c Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
1DI75E-100	1200	1200	75	500	70	75	5.0	3.0	15.0	3.0	M206	265
1DI75F-100	1200	1200	75	500	70	75	5.0	3.0	15.0	3.0	M206	265



Power Transistor Modules

3-terminal type 600 volts class power transistor modules

Device type	V _{CB0} Volts	V _{CE0} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (Min.)	I _c		Switching time(Max.)			Package	Net mass Grams
						Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
ETF81-050	600	450	15	120	100	15	5.0	1.0	12.0	2.0	M101	33
EVG31-050A	600	450	30	200	100	30	5.0	3.0	12.0	4.0	M201	90
ETG81-050A	600	450	30	200	100	30	5.0	3.0	12.0	4.0	M102	100
ETK81-050	600	450	50	300	100	50	5.0	3.0	12.0	4.0	M102	100
EVK31-050	600	450	50	300	100	50	5.0	3.0	12.0	4.0	M201	90
ETK85-050	600	450	75	350	70	75	5.0	2.0	10.0	2.5	M102	100
EVK71-050	600	450	75	350	70	75	5.0	2.0	10.0	2.5	M202	235
EVL31-050	600	450	100	500	100	100	5.0	2.0	10.0	3.0	M203	450
EVM31-050A	600	450	150	600	70	150	5.0	2.0	10.0	2.5	M203	450
ETN85-050	600	450	300	1200	70	300	5.0	2.0	12.0	2.5	M104	450
ETL81-050	600	500	100	600	100	100	5.0	3.0	10.0	3.0	M103	200
2DI30D-050A	600	450	30	250	100	30	5.0	3.0	12.0	4.0	M208	175
2DI50D-050A	600	450	50	310	100	50	5.0	3.0	12.0	4.0	M208	175
2DI75D-050A	600	450	75	350	100	75	5.0	3.0	12.0	4.0	M208	175
2DI100D-050	600	450	100	620	100	100	5.0	3.0	12.0	4.0	M205	340
2DI150D-050	600	450	150	690	100	150	5.0	3.0	12.0	4.0	M205	340
2DI200A-050	600	450	200	900	80	200	5.0	2.0	12.0	3.0	M207	550
2DI300A-050	600	450	300	1200	70	300	5.0	2.0	12.0	2.5	M207	550

6 in one-package power transistor modules

DataSheet4U.com

Device type	V _{CB0} Volts	V _{CE0} (sus) Volts	I _c Cont. Amps.	P _c Watts	h _{FE} (Min.)	I _c		Switching time(Max.)			Package	Net mass Grams
						Amps.	V _{CE} Volts	t _{on} μsec.	t _{stg} μsec.	t _f μsec.		
6DI10A-050	600	450	10	80	100	10	5.0	1.0	12.0	2.0	M601	130
EVF31T-050A	600	450	15	100	100	15	5.0	1.0	15.0	2.5	M602	180
6DI15A-050	600	450	15	80	100	15	5.0	1.0	12.0	2.0	M604	150
6DI20C-050	600	450	20	120	100	20	5.0	1.0	12.0	2.0	M604	150
6DI30A-050	600	450	30	150	100	30	5.0	1.5	12.0	3.0	M603	450
6DI30B-050	600	450	30	200	100	30	5.0	1.0	12.0	2.0	M605	210
6DI50B-050	600	450	50	230	100	50	5.0	3.0	12.0	4.0	M606	450
6DI50C-050	600	450	50	230	100	50	5.0	1.5	12.0	3.0	M603	450
6DI75A-050	600	450	75	350	100	75	5.0	1.5	12.0	3.0	M603	450
6DI100A-050	600	450	100	400	80	100	5.0	3.0	15.0	4.0	M603	450
6DI10A-120	1200	1200 *	10	100	70	10	5.0	3.0	15.0	3.0	M604	150
6DI15A-120	1200	1200 *	15	150	70	15	5.0	3.0	15.0	3.0	M605	210
6DI30A-120	1200	1200 *	30	230	70	30	5.0	3.0	15.0	3.0	M606	450

*V_{CEX(sus)}