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## High-speed switching 1400 volts class power transistor modules

- Suited for motor control applications with 575V AC input.
- · Power transistors and free wheels are built into one package.
- · Wide SOA with high-speed switching

Device type	V <sub>сво</sub> Volts	V <sub>CE</sub> O Volts	V <sub>CEX</sub> (sus) Volts	lc cont. Amps	Pc # #	hFE min	(Tj=12	V <sub>CE</sub> Volts			ne (Max.) - tr - µsec	Package	Net mass Grams	Equivalent circuit Page 32, 33
2DI50Z-140	1400	1400	1200	50	400	75	50	2.8	3.0	15	2	M204	175	Fig. E4
2DI75Z-140	1400	1400	1200	75	500	75	75	2.8	3.0	15	2	M209	230	Fig. E4
2DI100Z-140	1400	1400	1200	100	800	75	100	2.8	3.0	15	2	M210	470	Fig. E5
2DI150Z-140	1400	1400	1200	150	1000	75	150	2.8	3.0	15	2	M210	470	Fig. E5
1DI300Z-140	1400	1400	1200	300	2000	75	300	2.8	3.0	15	2	M106	460	Fig. D2

## Power transistor modules with zener diode for snubber circuit

- · Built-in zener diode permits wiring connections in the shubber circuit to be simplified merely by connecting a power transistor module to an external capacitor.
- Two types of packages for the positive (P type) and negative (N type) legs allow the wiring distance between two power She transistors to be shortened.
- · Suited for parallel connection in the large capacity inverters

Device type	Vсво	<sub>⊪</sub> Усво "	VCEO	·lc .	Pc 1	hÆ.	. (Tj=12	400 111 111 1111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e (Max.)	Package	Net 🔭	Equivalent
	Volts	Volts	(sus) Volts	cont. Amps.	Watts	min.	lc Amps.	V <sub>CE</sub> Volts	ton μsec.	t <sub>stg</sub> μsec.	u μsec. «		mass Grams	eircuit Page 33, 34
1DI300MN-050	600	600	450	300	1380	3000	300	2.5	5.5	8.0	2.0	M115	430	Fig. D8
1DI300MP-050	600	600	450	300	1380	3000	300	2.5	5.5	8.0	2.0	M114	430	Fig. D8
1DI400MN-050	600	600	450	400	1500	2000	400	2.5	8.5	8.0	2.0	M115	430	Fig. D8
1DI400MP-050	600	600	450	400	1500	2000	400	2.5	8.5	8.0	2.0	M114	430	Fig. D8
1DI300MN-120	1200	1200	900	300	2000	1500	300	4	7.0	15.0	3.0	M118	430	Fig. F2
1DI300MP-120	1200	1200	900	300	2000	1500	300	4	7.0	15.0	3.0	M117	430	Fig. F2
1DI400MN-120	1200	1200	900	400	3000	2000	400	4	3.0	15.0	3.0	M118	430	Fig. F2
1DI400MP-120	1200	1200	900	400	3000	2000	400	4	3.0	15.0	3.0	M117	430	Fig. F2
1DI200ZN-120	1200	1200	1200 *	200	1400	100	200	5.0	3.0	15.0	2.0	M115	430	Fig. D9
1DI200ZP-120	1200	1200	1200 *	200	1400	100	200	5.0	3.0	15.0	2.0	M114	430	Fig. D9
1DI300ZN-120	1200	1200	1200 *	300	2000	100	300	5.0	3.0	15.0	2.0	M115	430	Fig. D9
1DI300ZP-120	1200	1200	1200 *	300	2000	. 100	300	5.0	3.0	15.0	2.0	M114	430	Fig. D9

<sup>\*</sup> Vcex (sus)

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

- Allows devices to be reduced in size by high packaging density.
- · High hee transistors are built into MS type.

	Device type	Vсво	Vceo	Vceo	lc	Pc -	hre	(Tj=12	!5°C) * -	Switch	ning tir	ne (Max.) =	Package	e Net	Equivalent
		Volts	Volts	(sus) Volts	a cont.	Watts	min.	lc- Amps	Vce - Volts	ton	t <sub>stg</sub> usec.	usec.		mass Grams	Page 34, 36
		8 m 70.	4 2 11 3 20	7.7.3.8	WALL SO E. P		为·专型证券	F M 9-7	.= volta:		μοςς. -	4 -μ3-ς	* # * * # #	A LEMANT	# # A W # 4. · · · · · · · · · · · · · · · · · ·
)a	6DI10MS-050	600	600	450	10	50	100	10	2	2.0	8	2	M615	ww <b>s</b> .Dat	ta Soleto 4U.com
	6DI15S-050	600	600	450	15	60	100	15	5	1.0	12	2	M614	www.agelec	Fig. H4
	6DI15MS-050	600	600	450	15	60	150	15	2.5	2.0	8	2	M615	65	Fig. J7
	6DI20MS-050	600	600	450	20	80	200	20	2.5	2.0	8	2	M615	65	Fig. J7
											Data	Shootall	com		