

Power Interface Products

International
IR Rectifier

HEXFET POWER MODULES

PART NUMBER	V _{DS} (V)	I _D MAX. (1) @ T _C = 45°C (AMPS)	MAX. R _{DS(ON)} PER SWITCH		V _{SD} (2) PER SWITCH		TYPICAL R _{THJC} (K/W)	CIRCUIT	CASE OUTLINE NUMBER (7)	NOTES	CASE STYLE
			LOW SIDE (OHMS)	HIGH SIDE (OHMS)	LOW SIDE (VOLTS)	HIGH SIDE (VOLTS)					

3 ϕ BRIDGES for brushless DC motors

IRFT004	50	3.3	0.24	0.50	1.0	-5.5	10.8	B	CP1	—	POWERLINE 1
CPY301F	50	3.3	0.24	0.50	1.0	1.5	10.8	C	CP1	(4)(6)	POWERLINE 1
CPX303A	60	17.5	0.05	0.05	1.6	1.6	3.8	A	CP2	—	POWERLINE 2
IRFT002	60	6.1	0.10	0.28	1.25	-6.3	5.6	B	CP1	—	POWERLINE 1
CPY302F	60	6.1	0.10	0.28	1.25	1.5	5.6	C	CP1	(4)(6)	POWERLINE 1
CPX313A	100	7.8	0.18	0.18	2.5	2.5	5.3	A	CP2	—	POWERLINE 2
IRFT001	100	3.6	0.30	0.60	2.5	-6.3	7.5	B	CP1	—	POWERLINE 1
CPY312F	100	3.6	0.30	0.60	2.5	1.5	7.5	C	CP1	(4)(6)	POWERLINE 1

FULL BRIDGES for stepper motors, brush DC motors, servo amplifiers, power supplies

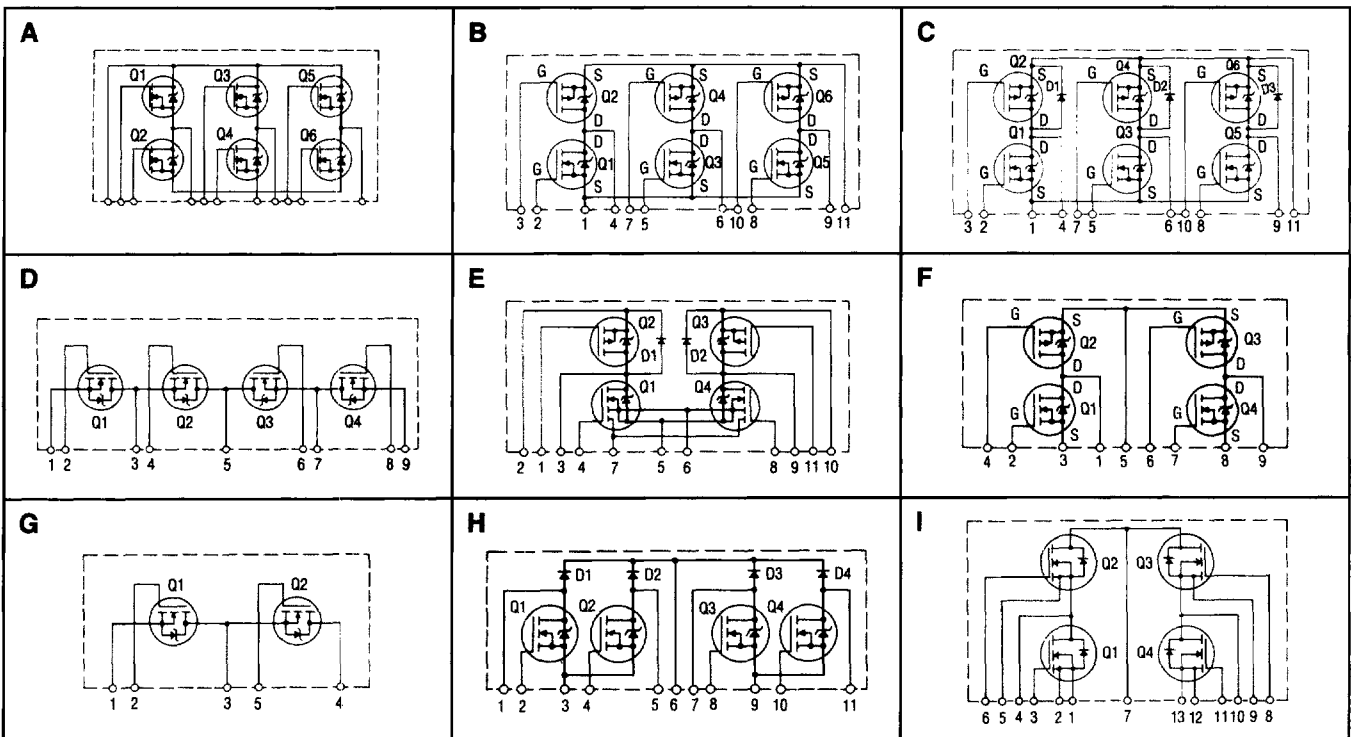
CPY203E	60	10.1	0.05	0.14	1.6	1.5	5.6	E	CP1	(3)(4)(6)	POWERLINE 1
IRFT003	60	6.1	0.10	0.28	1.25	-6.3	3.8	F	CP1	—	POWERLINE 1
CPY213E	100	6.1	0.18	0.30	2.5	1.5	5.3	E	CP1	(3)(4)(6)	POWERLINE 1
CPX234A	250	9.0	0.28	0.28	1.8	1.8	1.8	D	CP2	—	POWERLINE 2
CPX233A	250	5.9	0.45	0.45	2.0	2.0	2.6	D	CP2	—	POWERLINE 2
CPX254A	500	5.3	0.85	0.85	2.0	2.0	1.8	D	CP2	—	POWERLINE 2
CPX253A	500	3.3	1.50	1.50	1.6	1.6	2.6	D	CP2	—	POWERLINE 2
CPW256K	500	16.0	0.27	0.27	1.3	1.3	0.6	I	CP3	(5)	POWERLINE 3
CPW255K	500	10.5	0.40	0.40	1.4	1.4	1.0	I	CP3	(5)	POWERLINE 3

HALF BRIDGES for high-power motor and power supply applications

CPY135K	250	17.5	0.14	0.14	1.8	1.8	1.0	G	CP1	—	POWERLINE 1
CPY155K	500	10.5	0.40	0.40	1.4	1.4	1.0	G	CP1	—	POWERLINE 1

UNIPOLAR DRIVE for stepper motors, solenoid drives

CPY402H	60	10.0	0.10	—	1.25	1.5	5.6	H	CP1	(4)(6)	POWERLINE 1
CPY400H	100	7.8	0.18	—	2.5	1.5	5.3	H	CP1	(4)(6)	POWERLINE 1



(1) Complementary pair; p-channel limited where applicable. (2) Typical; consult the data sheet for conditions. (3) Contains HEXSense® current-sensing die. (4) Includes freewheeling diodes across the p-channel die. (5) Employs gate-source zener diodes for ESD protection. (6) VSD value given for reverse conduction through freewheeling diode. (7) For case outline drawing see page 135.