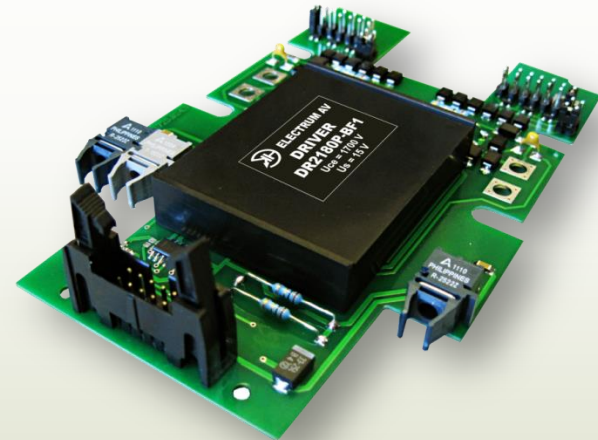
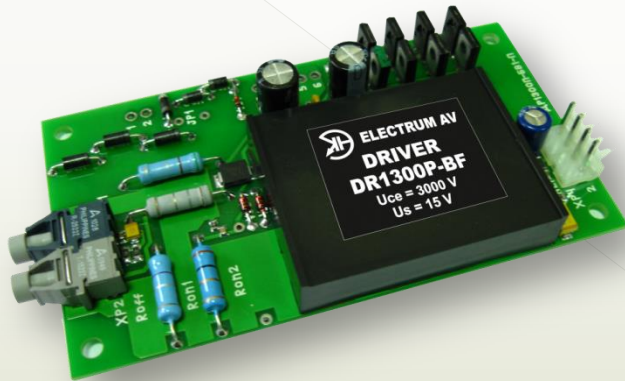


ELECTRUM



transistors' driver



DRIVERS

- OUTPUT CURRENT UP TO 30 A
- OPERATION FREQUENCY UP TO 200 kHz
- TRANSISTOR CONTROL UP TO 3300 V

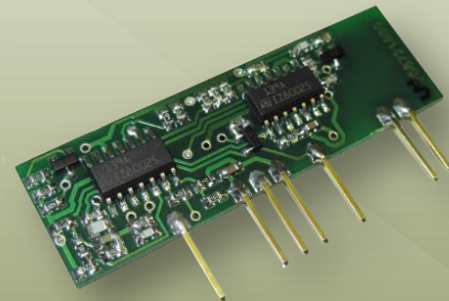
DRIVERS-ANALOGUES OF «CT CONCEPT» AND «SEMIKRON»

- OUTPUT CURRENT UP TO 48 A
- OPERATION FREQUENCY UP TO 100 kHz
- TRANSISTOR CONTROL UP TO 6500 V



DRIVERS' MODULES

- OUTPUT CURRENT UP TO 18 A
- OPERATION FREQUENCY UP TO 100 kHz
- TRANSISTOR CONTROL UP TO 1700 V



DRIVERS' MODULES – ANALOGUES OF «POWEREX»

- OUTPUT CURRENT UP TO 12 A
- OPERATION FREQUENCY UP TO 20 kHz
- TRANSISTOR CONTROL UP TO 1200 V

NEW SEMICONDUCTOR POWER IS COMING...

Driver type	Quantity of channels	U _s V	U _{in} V	U _{is} V	I _{out} _{puł} A	P _{out} W	F _{com} kHz	U _{ce} V	U _{ap} V	Analogues
Drivers modules										
DM180P-B(1)	1	15	5(15)	4000	8	4	50	1700	-	
DM280P-B(1)	2 h/b	15	5(15)	4000	8	2x4	50	1700	-	
2DM180P-B(1)	2 i	15	5(15)	4000	8	2x4	50	1700	-	
DM2160P-B	2 u	15	5	4000	16	2x4	50	1700	-	
DM150A	1	15/ -10	5 mA	4000	5	-	25	1700	-	M57962
DM1120P-A(1)	1	15	5 mA	4000	12	3	25	1700	-	VLA500-01
Drivers										
DR180P-B(1)	1	15	5(15)	4000	8	4	50	1700	-	
DRA180P-B(1)	1	15	5(15)	7500	8	4	50	3300	≤3200	
DR280P-B(1)	2 h/b	15	5(15)	4000	8	2x4	50	1700	-	
2DR180P-B(1)	2 i	15	5(15)	4000	8	2x4	50	1700	-	
DRB280P-B(1)	2 u	15	5(15)	4000	8	2x4	200	1700	≤1200	
DR1300P-BF	1	15	FOCL	7500	30	10	50	1700	≤1200	
DR2160P-B1	2 h/b	15	15	4000	16	2x4	50	1700	-	SKHI22
DR280P-B4	2 u	15	15	4000	16	2x4	50	1700	-	Skyper32 Pro
DR1480P-B1	1	15	15	4000	48	10	50	1700	≤1200	1SD1548AI
DR1280P-BF	1	15	FOCL	15000	28	6	50	6500	≤4400	1SP0635
DR2180P-B1	2 h/b	15	5	4000	18	2x3	100	3300	-	2SD315AI
DR2180P-B2	2 h/b	15	5	4000	18	2x3	100	1700	-	2SD300C
DR2180P-B3	2 h/b	15	5	4000	18	2x3	100	1700	≤1200	2SP0320T
DR2180P-B4	2 h/b	15	5	4000	18	2x3	100	1700	≤1200	2SP0115
DR2180P-B5	2 h/b	15	5	7500	18	2x3	100	3300	≤2400	2SB315A
DR2180P-BF	2 h/b	15	FOCL	7500	18	2x3	100	3300	≤2400	2SD315B
DR2180P-BF1	2 h/b	15	FOCL	4000	18	2x3	100	1700	≤1200	2SP0320V(S)
DR6120P-A	6 (3 h/b)	15	5	4000	12	6x3	25	1700	-	

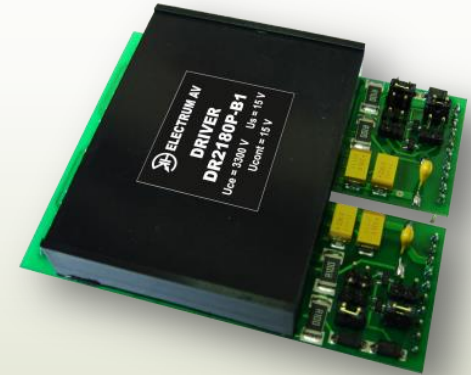
h/b – half-bridge; i – independent control; u – universal control



ANALOGUE OF 2SP0115

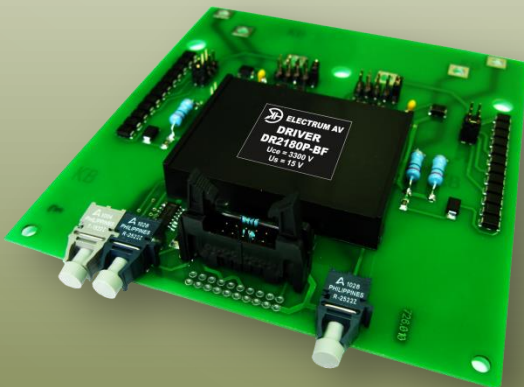


ANALOGUE OF 2SD1548



ANALOGUE OF 2SD315AI

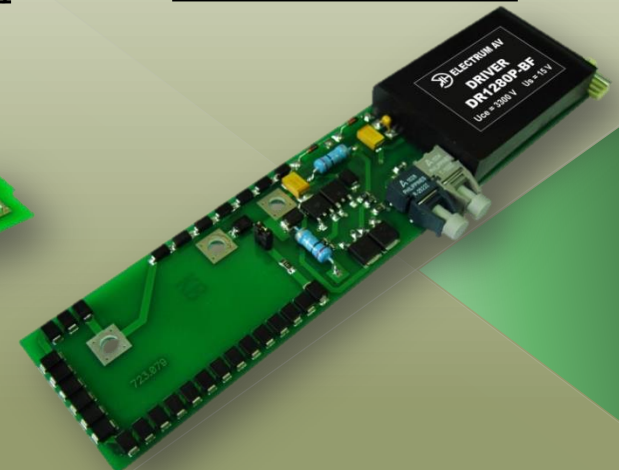
ANALOGUE OF 2SB315A(B)



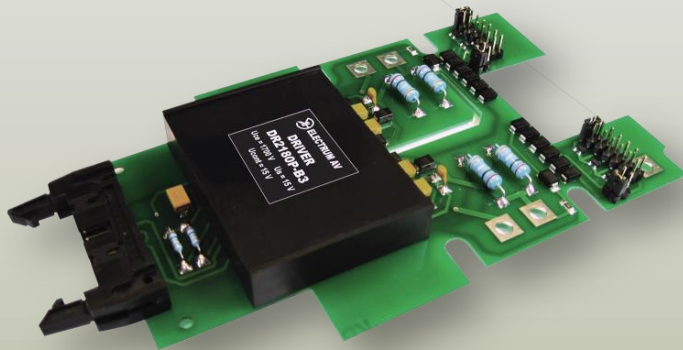
ANALOGUE OF 2SP0320T(V)



ANALOGUE OF 1SP0635



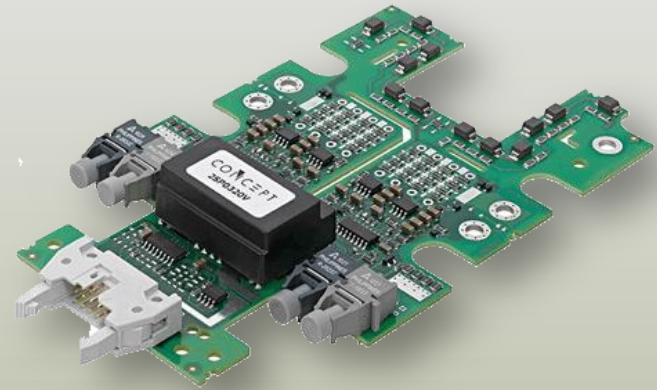
DR2180P-B3(B1)



$U_s = 15 \text{ V}$
 $I_s = 80 \text{ mA}$
 $U_{out} = +15 \text{ /-} 10 \text{ V}$
 $I_g = 18 \text{ A}$
 $P_{out} = 3 \text{ W}$
 $F_{max} = 100 \text{ kHz}$
 $U_{ce} = 1700 \text{ V}$

$U_{des} = 5.8 \text{ V}$
 $T_d = 2 \dots 10 \text{ } \mu\text{s}$
 $T_{off} = 1.4 \text{ } \mu\text{s}$
 $T_b = 70 \text{ ms}$

2SP0320T(V,S)



$U_s = 15 \text{ V}$
 $I_s = 37 \text{ mA}$
 $U_{out} = +15 \text{ /-} 10 \text{ V}$
 $I_g = 20 \text{ A}$
 $P_{out} = 3 \text{ W}$
 $F_{max} = 100 \text{ kHz}$
 $U_{ce} = 1700 \text{ V}$

$U_{des} = 10.2 \text{ V}$
 $T_d = 6.9 \text{ } \mu\text{s}$
 $T_{off} = 1.5 \text{ } \mu\text{s}$
 $T_b = 90 \text{ ms}$

Драйвер	Fuji	Infineon	Dynex	ABB	Mitsubishi / Powerex
DR2180P-B3 (P-BF1)	2MBI1400VXB120P 2MBI900VXA-120E 2MBI900VXA-120P 2MBI1000VXB170E 2MBI1400VXB170E 2MBI650VXA-170E	FF1400R12IP4 FF450R12IE4 FF600R12IE4 FF900R12IE4 FF900R12IP4 FF1000R17IE4 FF1000R17IE4D FF1400R17IP4 FF450R17IE4 FF650R17IE4 FF650R17IE4D			
DR2180P-B4	2MBI225VN-120-50 2MBI300VN-120-50 2MBI450VN-120-50 2MBI600VN-120-50 2MBI300VN-170-50 2MBI450U4N170-50 2MBI450VN-170-50 2MBI550VN-170-50	FF450R06ME3 FF600R06ME3 FF150R12ME3 FF225R12ME4 FF300R12ME3(4) FF450R12ME3(4) FF600R12ME4 FF225R17ME4 FF300R17ME3(4) FF450R17ME3(4) FF600R17ME4			CM200DX-24S CM300DX-24S CM450DX-24S
DR2180P-B5 (P-BF)	2MBI800U4G-120 2MBI1200U4G-170 2MBI800U4G-170 2MBI1200U4G-170	FF800R12KE3 FF1200R17KE3_B2 FF800R17KF6 FF800R17KP4_B2	DIM800DDM12-A000	5SND0800M170100	CM1200DC-34N CM800DZ-34H
DR1280P-BF	1MBI1600VC-120P 1MBI1600VR-170E 1MBI1200UE-330 1MBI1500UE-330 1MBI800UG-330	FZ1200R12HP4 FZ2400R12HP4 FZ3600R12HP4 FZ1800R17HP4 FZ2400R17HP4 FZ3600R17HP4 FZ1000R33HE3 FZ1000R33HL3 FZ1200R33HE3 FZ1200R33KF2C FZ1500R33HE3 FZ1500R33HL3 FZ800R33KF2C	DIM1200ESM33 DIM1500ESM33 DIM800NSM33	5SNA3600E170300 5SNA1200E330100 5SNA1500E330300 5SNA1500E330305 5SNA0800N330100	CM1000HC-66R CM1200HC-66H CM1500HC-66R CM800HC-66H

Driver selection algorithm for scheme

Scheme type	Quantity and driver type
Single switch	1
Lower switch	1
Higher switch	1
Back-to-back transistors	1 x 2i or 1 x 2h/b
Half-bridge	1 x 2h/b
Skew bridge	1 x 2i
H-мост (two-phase inverter)	2 x 2h/b
Three-phase inverter *	3 x 3h/b

h/b – half-bridge; i – independent control; u – universal control

Three-phase inverter driver is also driver **DR6120P-A** that is intended to control inverter with voltage up to 1700 V, switch current up to 400 A and frequency up to 25 kHz.

NEW SEMICONDUCTOR POWER IS COMING...

Channels	Switch voltage	Switch current	Control frequency	Control type	Mounting	Driver type
1	<1700	<400	<25	Log.	To board	MD1120 or MD180
				FOCL	To module	DRA180
			<50	Log.	To board	MD180
				FOCL	To module	DR1300
				Log.	To board	-
					To module	-
		>1000	<50	Log.	To board	MD180
				FOCL	To module	DR1300
			Log.	To board	-	
				To module	-	
				To board	DR1480	
				To module	-	
	2500, 3300			Log.	To module	DRA180
				FOCL	To module	DR1280
				FOCL	To module	DR1280
4500, 6500				FOCL	To module	DR1280

NEW SEMICONDUCTOR POWER IS COMING...

Channels	Switch voltage	Switch current	Control frequency	Control type	Mounting	Driver type	
2 h/b	<1700	<400	<25	Log.	To board	2x MD1120 or MD280	
				FOCL	To module	DR280	
			<50	Log.	To board	MD280	
				FOCL	To module	DR2180P-BF	
			50...100	Log.	To board	MD2180	
				FOCL	To module	DR2180P-B5	
		<1000	<50	Log.	To board	2MD180	
				FOCL	To module	2DR180	
			50...100	Log.	To board	DR2180P-BF	
				FOCL	To module	MD2180	
			>1000	<50	Log.	To board	DR2180P-B5
					FOCL	To module	2xDR1480
	2500, 3300			Log.	To board	2xDR1300	
					To module	-	
				FOCL	To board	DR2180P-BF	
					To module	DR2180P-BF	
4500, 6500			FOCL	To module	2xDR1280		

NEW SEMICONDUCTOR POWER IS COMING...

Channels	Switch voltage	Switch current	Control frequency	Control type	Mounting	Driver type
2 i	<1700	<400	<25	Log.	To board	2x MD1120 or 2MD180
				FOCL	To module	2DR180
			<50	Log.	To board	2MD180
				FOCL	To module	2xDR1300
			50...100	Log.	To board	2MD1180
					To module	-
		<1000	<50	Log.	To board	2MD180
				FOCL	To module	2xDR1300
			50...100	Log.	To board	2MD1180
					To module	-
			>1000	Log.	To board	2xDR1480
				FOCL	To module	2xDR1300
	2500, 3300			Log.	To module	2xDRA180
	4500, 6500			FOCL	To module	2xDR1280
				FOCL	To module	2xDR1280

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