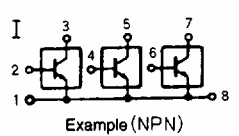
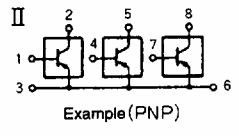
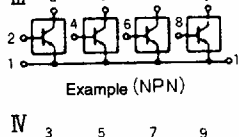
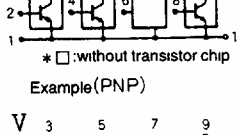
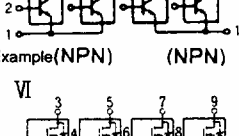
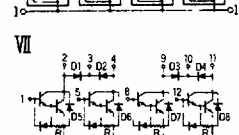
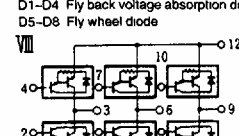
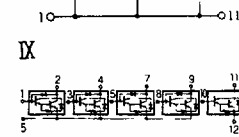



Transistors (Selection Guide by Applications and Functions)

Power Transistor Arrays

Equivalent Circuit	Series Name	PU3000 Series		PUA3000 Series	PU4000 Series					
	Package (No.)	8 Pin · SIP Package (D72) (D73)			10 Pin · SIP Package (D74)					
Equivalent Circuit	Structure	I		II	III		IV	V		
		NPN	PNP	PNP	NPN	PNP	PNP	NPN-NPN	PNP-PNP	NPN-PNP
 <p>Example (NPN)</p>	General	PU3110	PU3210		PU4110	PU4210		PU4410	PU4510	PU4310
		PU3111	PU3211		PU4111	PU4211		PU4411	PU4511	PU4311
 <p>Example (PNP)</p>	Low $V_{CE(sat)}$	PU3112	PU3212		PU4112	PU4212		PU4412	PU4512	PU4312
		PU3113	PU3213		PU4113	PU4213		PU4413	PU4513	PU4313
		PU3114	PU3214		PU4114	PU4214		PU4414	PU4514	PU4314
 <p>Example (NPN)</p>	General	PU3116	PU3216		PU4116	PU4216		PU4416	PU4516	PU4316
			PU3226					PU42C26		
 <p>Example (PNP)</p> <p>* □ : without transistor chip</p>	High h_{FE}			PUA3228						
 <p>Example (NPN)</p>	Darlington	PU3117			PU4117			PU4417		
		PU3118			PU4118			PU4418		
		PU3119	PU3219		PU4119	PU4219		PU4419	PU4519	PU4319
		PU3120	PU3220		PU4120	PU4220		PU4420	PU4520	PU4320
		△ PU3151			△ PU4151			△ PU4451		
		△ PU3152			△ PU4152			△ PU4452		
		△ PU3153			△ PU4153			△ PU4453		
		△ PU3154			△ PU4154			△ PU4454		
		△ PU3161			△ PU4161			△ PU4461		
		△ PU3162			△ PU4162			△ PU4462		
		△ PU3163			△ PU4163			△ PU4463		
		△ PU3164			△ PU4164			△ PU4464		
		PU3171			PU4171			PU4471		
PU3173	PU3273		PU4173	PU4273		PU4473	PU4573			
 <p>Example (NPN)</p>	Darlington built-in Zener	PU3121			PU4121			PU4421		
		PU3122			PU4122			PU4422		
		PU3123			PU4123			PU4423		
		PU3124			PU4124			PU4424		
									PU4325	
							PU4126			
							PU4128			
		△ PU3131			△ PU4131			△ PU4431		
		△ PU3132			△ PU4132			△ PU4432		
		△ PU3133			△ PU4133			△ PU4433		
		△ PU3134			△ PU4134			△ PU4434		
		△ PU3135			PU4135			PU4435		
		PU3136			PU4136			PU4436		
		PU3137			PU4137			PU4437		
△ PU3138			△ PU4138			△ PU4438				
PU3141			PU4141			PU4441				
△ PU3142			△ PU4142			△ PU4442				
△ PU3143			△ PU4143			△ PU4443				
△ PU3144			△ PU4144			△ PU4444				
PU3145			PU4145			PU4445				
PU3146			PU4146			PU4446				
△ PU3147			△ PU4147			△ PU4447				
△ PU3148			△ PU4148			△ PU4448				
 <p>D1-D4 Fly back voltage absorption diode D5-D8 Fly wheel diode</p>	High- h_{FE} built-in Zener	PU3127			PU4127					
	FET built-in Zener	N Channel PU61C56								
	FET									

Note) PU8456 is with long lead. △ Preliminary

Transistors (Selection Guide by Applications and Functions)

Power Transistor Arrays

PU7000 PU8000 Series		PU1000 Series		PUC4700 Series		Main Characteristics (T _a = 25 °C)										Remarks	
10 Pin SIP (D74)		12 Pin SIP (D75)														Basic Type	
VI	VII	VIII/IX				hFE				V _{CE(sat)}			NPN	PNP			
N Channel	NPN- NPN	NPN- PNP	N Channel	I _C , * I _D (A)	V _{CE0} , * V _{DSS} (V)	V _{CE0} , * V _{GSS} (V)	V _{EB0} (V)	min.	max.	V _{CE} (V)	I _C (A)	max (V)	I _C (A)	I _B (A)			
				3/-3	60/-60	60/-60	6/-6	70	250	4/-4	1/-1	±1.2	3/-3	0.375/-0.375	2SD1266	2SB941	
				4/-4	60/-60	60/-60	5/-5	70	250	4/-4	1/-1	±1.5	4/-4	0.4/-0.4	SSD1267	SB942	
				3/-3	130/-130	80/-80	7/-7	60	260	2/-2	0.1/-0.1	±0.5	2/-2	0.1/-0.1	2SD1268	2SB943	
				4/-3	130/-130	80/-80	7/-7	60	260	2/-2	0.1/-0.1	±0.5	3/-3	0.15/-0.15	2SD1269	2SB944	
				7/-7	40/-40	20/-20	5/-5	60	260	2/-2	2/-2	±0.6	5/-5	0.16/-0.16	2SD1444	2SB953	
				-10	-40	-20	5	60	260	-2	-2	-0.6	-7	-0.23		2SB947	
				2/-2	200/-200	150/-150	6/-6	60	240	10/-10	0.15/-0.15	±1	0.5/-0.5	0.05/-0.05	2SD1264	2SB940	
				-2	-60	-60	-6	100	280	-4	-1	±2	-2	-0.2		2SB1052	
				-2	-30	-30	-6	80	280	-4	-1	0.8	-1	-0.1			
				3	80	80	6	500	2500	4	0.5	1	2	0.05	2SD1273		
				1	200	150	6	500	2000	4	0.2	1	0.5	0.02	2SD1272		
				2/-2	60/-60	60/-60	5/-5	1000	10000	4/-4	2/-2	±2.5	2/-2	8mA/-8mA	2SD1275	2SB949	
		PU1619		2.5/-2.5	60/-60	60/-60	5/-5	1000	10000	4/-4	2/-2	±2.8	2/-2	8mA/-8mA	2SD1275	2SB949	
		PU1620		4/-2	60/-60	60/-60	5/-5	1000	10000	3/-3	3/-3	±2	2/-3	12mA/-12mA	2SD1276	2SB950	
				2	60	60	5	1000	10000	4	1	2.5	2	8mA			
				3	60	60	5	1000	10000	4	1.5	2.5	3	12mA			
				4	60	60	5	1000	10000	4	2	2.5	4	16mA			
				8	60	60	5	1000	10000	4	4	2.5	8	32mA			
				2	200	200	5	1000	10000	4	0.7	2.5	1.5	6mA			
				3	200	200	5	1000	10000	4	1	2.5	2	8mA			
				4	200	200	5	1000	10000	4	1.5	2.5	3	12mA			
				8	200	200	5	1000	10000	4	3	2.5	6	24mA			
				3	150	100	8	2000	20000	2	1.5	1.5	1.5	1.5mA			
				4/-4	150/-150	100/-100	5/-5	1000	10000	4/-4	2/-2	2.5	4/-4	16mA/-16mA			
	PU1101			1.5	150	100	5	2000	15000	5	0.75	1.5	0.75	1.5mA			
		PU1501		2/-4	100 ±15/-80	100 ±15/-80	5/-5	1000	10000	4/-3	2/-3	±2.5	2/-3	8mA/-12mA			
		PU1601		4/-4	100/-100	100/-100	5/-5	1000	10000	4/-4	2/-2	±2.5	4/-4	±16mA			
				2	30 ±5	30 ±5	5	1000	10000	4	2	2.5	2	8mA	2SD1322		
				4	30 ±5	30 ±5	5	1000	10000	3	3	2	3	12mA	2SD1323		
				2	60 ±10	50 ±10	5	1000	10000	4	2	2.5	2	8mA	2SD1325		
				4	60 ±10	60 ±10	5	1000	10000	3	3	-1.2	3	12mA	2SD1326		
				(NPN) 2	60 ±10	60 ±10	5	1000	10000	4	2	2.5	2	8mA	2SD1325	2SB941	
				(PNP) 3	-60	-60	5	70	250	-4	-1	-1.2	-3	-0.375			
				2	100 ±15	100 ±15	5	1000	10000	4	2	2.5	2	8mA			
				4	100 ±15	100 ±15	5	1000	10000	3	3	2	3	12mA			
				2	60 ±10	60 ±10	5	1000	10000	4	1	2.5	2	8mA			
				3	60 ±10	60 ±10	5	1000	10000	4	1.5	2.5	3	12mA			
				4	60 ±10	60 ±10	5	1000	10000	4	2	2.5	4	16mA			
				5	60 ±10	60 ±10	5	1000	10000	4	4	2.5	8	32mA			
				2	60 ±10	60 ±10	5	1000	10000	4	1	2.5	2	8mA			
				3	60 ±10	60 ±10	5	1000	10000	4	1.5	2.5	3	12mA			
				4	60 ±10	60 ±10	5	1000	10000	4	2	2.5	4	16mA			
				8	60 ±10	60 ±10	5	1000	10000	4	4	2.5	8	32mA			
				2	100 ±15	100 ±15	5	1000	10000	4	1	2.5	2	8mA			
				3	100 ±15	100 ±15	5	1000	10000	4	1.5	2.5	3	12mA			
				4	100 ±15	100 ±15	5	1000	10000	4	2	2.5	4	16mA			
				8	100 ±15	100 ±15	5	1000	10000	4	4	2.5	8	32mA			
				2	100 ±15	100 ±15	5	1000	10000	4	1	2.5	2	8mA			
				3	100 ±15	100 ±15	5	1000	10000	4	1.5	2.5	3	12mA			
				4	100 ±15	100 ±15	5	1000	10000	4	2	2.5	4	16mA			
				8	100 ±15	100 ±15	5	1000	10000	4	4	2.5	8	32mA			
				3	35 ±5	35 ±5	6	500	2500	4	0.5	1.0	2	0.05			
PU7456 PUB456 Note)				* 6	35 ±10	* ±20		I _{DSS} > 10μA (V _{DS} = 20V, V _{GS} = 0)				V _{th} = 2.5V (V _{DS} = 25V, I _D = -1mA)					
PUB4701				* 3	150 *	* ±20		I _{DSS} > 10μA (V _{DS} = 120V, V _{GS} = 0)				t _{on} = 10ns, t _r = 30ns, t _d (off) = 290ns					
		PUC4701		* 2	80 *	* ±15		I _{DSS} > 10μA (V _{DS} = 64V, V _{GS} = 0)				R _{on} < 0.9 with fly back Di					