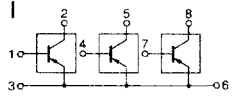
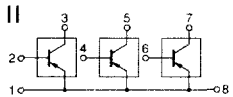
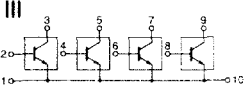
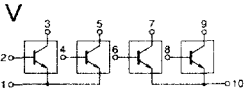
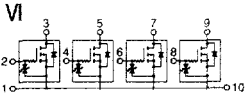
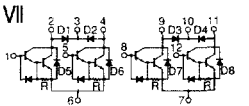
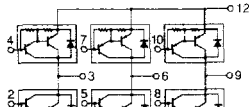
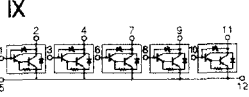


Transistors (Selection Guide by Applications and Functions)

■ Power Transistor Arrays

Equivalent Circuit	Series Name	PU3000 Series		PUA3000 Series	PU4000 Series			
	Package (No.)	8-Pin · SIL Package (D68)(D69)			10-Pin · SIL Package (D70)			
Equivalent Circuit	Equivalent Circuit	I		II	III		V	
	Structure Application	NPN	PNP	PNP	NPN	PNP	NPN-NPN	PNP-PNP
 Example (NPN)	General	PU3110	PU3210		PU4110	PU4210	PU4410	PU4510
		PU3111	PU3211		PU4111	PU4211	PU4411	PU4511
 Example (PNP)	Low $V_{CE(sat)}$	PU3112	PU3212		PU4112	PU4212	PU4412	PU4512
		PU3113	PU3213		PU4113	PU4213	PU4413	PU4513
		PU3114	PU3214		PU4114	PU4214	PU4414	PU4514
			PU3215			PU4215		PU4515
 Example (NPN)	General	PU3116	PU3216		PU4116	PU4216	PU4416	PU4516
			PU3226					
 Example (NPN) (NPN)	High h_{FE}	PU3117			PU4117		PU4417	
		PU3118			PU4118		PU4418	
 Example (PNP)	Darlington	PU3119	PU3219		PU4119	PU4219	PU4419	PU4519
		PU3120	PU3220		PU4120	PU4220	PU4420	PU4520
		△ 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
 D1 ~ D4 : Fly back voltage absorption diode D5 ~ D8 : Fly wheel diode	Darlington with 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					PU4435	
		PU3136			PU4136		PU4436	
		PU3137			PU4137		PU4437	
		△ PU3138			△ PU4138		△ PU4438	
	High- h_{FE} with built-in zener	PU3141			PU4141		PU4441	
		△ PU3142			△ PU4142		△ PU4442	
		△ PU3143			△ PU4143		△ PU4443	
		△ PU3144			△ PU4144		△ PU4444	
		PU3145					PU4445	
		PU3146					PU4446	
		△ PU3147			△ PU4147		△ PU4447	
		△ PU3148			△ PU4148		△ PU4448	
	FET with built-in zener	N-Channel PU61C56						
	FET							

△ Tentative

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 SIL(D70)		12-Pin SIL(D71)																Basic Type															
VI		VII		VIII/IX																													
N Channel		NPN- NPN		NPN- PNP		N Channel		I _C * I _D (A)		V _{CE0} * V _{DSS} (V)		V _{CE0} * V _{DSS} (V)		V _{EB0} (V)		h _{FE}				V _{CE(sat)}				NPN		PNP							
								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		2SD1267		2SB942	
								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	
								2.5/-2.5		60/-60		60/-60		5/-5		1000		10000		4/-4		2/-2		±2.8		2/-2		8mA/-8mA		2SD1275		2SB949	
								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					
								1.5		150		100		5		2000		15000		5		0.75		1.5		0.75		1.5mA					
								2/-4		100 ± 15/-80		100 ± 15/-80		5/-5		1000		10000		4/-3		2/-3		±2.5		2/-3		8mA/-12mA					
								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								* 6		* 35 ± 10		* ± 20				I _{DSS} > 10μA (V _{DS} = 20V, V _{GS} = 0)				V _{th} = 2.5V (V _{DS} = 25V, I _D = 1mA)													
PUB4702								* ± 1		* 35 ± 10		* ± 15				I _{DSS} > 10μA (V _{DS} = 25V, V _{GS} = 0)				t _{on} = 120ns, t _r = 390ns, t _d (off) = 800ns													
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 flyback Diode													