



# Transistors (Selection Guide by Applications and Functions)

## Power Transistor Arrays

PU7000 PU8000 Series		PU1000 Series		PUC4700 Series		Main Characteristics (T <sub>a</sub> = 25 °C)										Remarks	
10 Pin SIP (D74)		12 Pin SIP (D75)														Basic Type	
VI	VII	VIII	IX														
N Channel	NPN- NPN	NPN- PNP	N Channel	I <sub>c</sub> * I <sub>D</sub> (A)	V <sub>CE0</sub> * V <sub>DSS</sub> (V)	V <sub>CE0</sub> * V <sub>DSS</sub> (V)	V <sub>EB0</sub> (V)	hFE			V <sub>CE(sat)</sub>			NPN	PNP		
				min.	max.	V <sub>CE</sub> (V)	I <sub>c</sub> (A)	max (V)	I <sub>c</sub> (A)	I <sub>B</sub> (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				
			(PNP) 3	-60	-60	5	70	250	-4	-1	-1.2	-3	-0.375	2SD1325	2SB941		
				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 <sub>DSS</sub> > 10μA (V <sub>DS</sub> = 20V, V <sub>GS</sub> = 0)					V <sub>th</sub> = 2.5V (V <sub>DS</sub> = 25V, I <sub>D</sub> = -1mA)					
PUB4701				* 3	150 *	* ±20	I <sub>DSS</sub> > 10μA (V <sub>DS</sub> = 120V, V <sub>GS</sub> = 0)					t <sub>on</sub> = 10ns, t <sub>r</sub> = 30ns, t <sub>d</sub> (off) = 290ns					
			PUC4701	* 2	80 *	* ±15	I <sub>DSS</sub> > 10μA (V <sub>DS</sub> = 64V, V <sub>GS</sub> = 0)					R <sub>on</sub> < 0.9 with fly back Di					