

POWER TRANSISTORS

NPN DARLINGTON POWER TRANSISTORS

Type No.	Absolute Maximum Ratings						Electrical Characteristics at $T_A = 25^\circ\text{C}$														
	P_C (W)	V_{CB0} (V)	V_{CE0} (V)	V_{EBO} (V)	I_C (A)	I_B (A)	I_{CB0} Max @ V_{CB} (mA)	I_{EBO} Max @ V_{EB} (mA)	$V_{I(B)CE0}$ Min @ I_C (V)	$V_{I(B)CE0}$ Min @ I_C (mA)	η_{FE} Min @ I_C @ V_{CE} (A)	η_{FE} Min @ I_C @ V_{CE} (V)	$V_{CE(1st)}$ Max. @ I_C @ I_B (V) (A) (mA)			f_T Typ. @ I_E @ V_{CE} (MHz) (A) (V)					
2SD1769	50	120	120	6	6	1	0.1	120	20	6	120	10	2000	3	2	1.5	3	3	100	-0.2	12
2SD1785	30	120	120	6	6	1	0.01	120	10	6	120	10	2000	3	2	1.5	3	3	100	-0.2	12
2SD1796	25	60±10	60±10	6	4	0.5	0.01	50	10	6	60±10	10	2000	3	4	1.5	3	10	60	-0.2	12
2SD2014	25	120	80	6	4	0.5	0.01	120	10	6	80	10	2000	3	2	1.5	3	3	75	-0.1	12
2SD2015	25	150	120	6	4	0.5	0.01	150	10	6	120	10	2000	2	2	1.5	2	2	40	-0.1	12
2SD2016	25	250	200	6	3	0.5	0.01	250	10	6	200	10	1000	1	2	1.5	1	1	90	-0.1	12
2SD2017	35	3200	250	20	6	1	0.1	300	10	20	250	25	2000	2	2	1.5	2	2	-	-	-
2SD2045	50	120	120	6	6(10)	1	0.01	120	10	6	120	10	2000	3	2	1.5	3	3	50	-1	12
2SD2081	30	120	120	6	10(15)	1	0.01	120	10	6	120	10	2000	5	4	1.5	5	5	-	-	-
2SD2082	75	120	120	6	16(26)	1	0.01	120	10	6	120	10	2000	8	4	1.5	8	16	-	-	-
2SD2083	120	120	120	6	25(40)	2	0.01	120	10	6	120	25	2000	12	4	1.8	12	24	-	-	-
2SD2141	35	380 ±50	380 ±50	6	6(10)	1	0.01	330	20	6	330	25	1500	3	2	1.5	4	20	20	-0.5	12
2SD2231	60	120	120	6	6(10)	1	0.01	120	10	6	120	10	2000	5	4	2.0	5	10	-	-	-
2SD2389	80	160	150	5	8	1	0.1	160	0.1	5	150	30	5000	6	4	2.5	6	6	80	-1	12
2SD2390	100	160	150	5	10	1	0.1	160	0.1	5	150	30	5000	7	4	2.5	7	7	55	-2	12
2SD2401	150	160	150	5	12	1	0.1	160	0.1	5	150	30	5000	7	4	2.5	7	7	55	-2	12

Note: I_C inside parentheses is a pulse current.

Sanken discrete devices are available from Allegro MicroSystems.
Contact local representative for additional information.