

SEMICONDUCTOR TECHNOLOGY, INC.

7-33-29

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7-33-31

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**NPN & PNP SILICON DARLINGTON TRANSISTORS**

STI Type	Industry Type	Power Dissipation @ 25°C (watts)	V <sub>CB0</sub> (volts)	V <sub>CE0</sub> (volts)	I <sub>CEV</sub>		h <sub>FE</sub> @ I <sub>C</sub>			V <sub>CE(SAT.)</sub> V <sub>BE(SAT.)</sub> @ I <sub>C</sub>			COB pF	CASE STYLE
					(volts)	us	(Min.)	(Max.)	A	(volts)	(volts)	A		
2N997	2N997	1.8	75	40**	60	.01	7000	70000	.10	1.6	1.8	.10	35	TO-18
2N998	2N998	1.8	100	60**	90	.01	2000	—	.10	1.2	1.8	.05	30	TO-18
2N999	2N999	1.8	60	60**	60	.01	7000	70000	.10	1.6	1.8	.10	20	TO-18
2N2723	2N2723	.50	80	60	60	.10	2000	10000	.10	1.0	1.7	.01	10	TO-72
2N2785	2N2785	.50	40	40	30	.05	2000	20000	.10	1.0	—	.015	30	TO-72
2N5390	2N5390	15	80	80	60	1.0	2000	20000	2.0	2.5	1.5	2.0	—	TO-33
2N6350	2N6350	5.0	80	80**	80	1.0	2000	10000	5.0	2.5	1.5	5.0	40	TO-33
2N6351	2N6351	5.0	150	150**	150	1.0	1000	10000	5.0	2.5	1.5	5.0	40	TO-33
2N6352	2N6352	25	80	80**	80	1.0	2000	10000	5.0	2.5	1.5	5.0	40	MD-42
2N6353	2N6353	25	150	150**	150	1.0	1000	10000	5.0	2.5	1.5	5.0	40	MD-42
2N6521'	2N6521	1.8	60	40	40	.01	10000	25000	.15	1.0	—	.10	—	TO-33
2N6522'	2N6522	1.8	60	40	40	.01	20000	50000	.15	1.0	—	.10	—	TO-33
FT359	FT359	125	375	375	375	5000	250	—	3.0	2.5	2.5	7.0	—	TO-3
IR5000	IR5000	125	400	400	400	1000	100	—	5.0	2.0	3.0	15	—	TO-3
IR5001	IR5001	125	450	450	450	1000	100	—	5.0	2.0	3.0	15	—	TO-3
IR5002	IR5002	125	500	500	500	1000	100	—	5.0	2.0	3.0	15	—	TO-3
IR5060	IR5060	125	350	350	350	1000	80	—	10	5.0	3.5	20	—	TO-3
IR5061	IR5061	125	400	400	400	1000	80	—	10	5.0	3.5	20	—	TO-3
IR5062	IR5062	125	450	450	450	1000	80	—	10	5.0	3.5	20	—	TO-3
IR5063	IR5063	125	500	500	500	1000	12	—	15	5.0	3.5	10	—	TO-3
IR5064	IR5064	125	600	600	600	1000	12	—	15	5.0	3.5	10	—	TO-3
IR5065	IR5065	125	750	750	750	1000	12	—	15	5.0	3.5	10	—	TO-3
IR5066	IR5066	125	900	900	900	1000	8.0	—	10	5.0	3.5	10	—	TO-3
IR5251	IR5251	100	400	400	400	1000	100	—	5.0	2.0	2.5	10	—	TO-3
IR5252	IR5252	100	450	450	450	1000	100	—	5.0	2.0	2.5	10	—	TO-3
IR5253	IR5253	100	500	500	500	1000	100	—	5.0	2.0	2.5	10	—	TO-3
MM6427	MM6427	1.25	50	40	30	.10	10000	—	.10	1.5	2.0	.10	8.0	TO-18
ST44E1	D44E1	50	40	80	80	250	1000	—	5.0	1.5	1.5	5.0	—	TO-220
ST44E2	D44E2	50	60	60	60	250	1000	—	5.0	1.5	1.5	5.0	—	TO-220
ST44E3	D44E3	50	80	80	80	250	1000	—	5.0	1.5	1.5	5.0	—	TO-220
ST-45E1'	D45E1'	50	40	40	40	250	1000	—	5.0	1.5	1.5	5.0	—	TO-220
ST-45E2'	D45E2'	50	60	60	60	250	1000	—	5.0	1.5	1.5	5.0	—	TO-220
ST-45E3'	D45E3'	50	80	80	80	250	1000	—	5.0	1.5	1.5	5.0	—	TO-220
ST-640	TIP-640	175	60	60	60	1000	1000	—	5.0	3.0	3.0	10	—	TO-3
ST-641	TIP-641	175	80	80	80	1000	1000	—	5.0	3.0	3.0	10	—	TO-3
ST-642	TIP-642	175	100	100	100	1000	1000	—	5.0	3.0	3.0	10	—	TO-3
ST-645'	TIP-645'	175	60	60	60	1000	1000	—	5.0	3.0	3.0	10	—	TO-3
ST-646'	TIP-646'	175	80	80	80	1000	1000	—	5.0	3.0	3.0	10	—	TO-3
ST-647'	TIP-647'	175	100	100	100	1000	1000	—	5.0	3.0	3.0	10	—	TO-3
ST-660	TIP-660	80	320	320	320	1.0	200	—	4.0	2.8	2.2	6.5	—	TO-3
ST-661	TIP-661	80	350	350	350	1.0	200	—	4.0	2.8	2.2	6.5	—	TO-3
ST-662	TIP-662	80	380	380	380	1.0	200	—	4.0	2.8	2.2	6.5	—	TO-3
ST-663	TIP-663	150	400	300	350	.25	500	—	5.0	3.0	2.5	20	250	TO-3
ST-664	TIP-664	150	450	350	400	.25	500	—	5.0	3.0	2.5	20	250	TO-3
ST-665	TIP-665	150	500	400	450	.25	500	—	5.0	3.0	2.5	20	250	TO-3
ST-666	TIP-666	150	400	300	350	.25	40	—	2.5	2.8	2.2	5.0	—	TO-3
ST-667	TIP-667	150	450	350	400	.25	40	—	2.5	2.8	2.2	5.0	—	TO-3
ST-668	TIP-668	150	550	450	450	.25	40	—	2.5	2.5	3.0	5.0	—	TO-3
ST-3040	MJ-3040	175	400	300**	400	1000	100	—	2.5	2.5	3.0	5.0	—	TO-3
ST-3041	MJ-3041	175	400	300**	400	1000	250	—	2.5	2.5	3.0	5.0	—	TO-3
ST-3042	MJ-3042	175	500	350**	500	1000	250	—	2.5	2.5	3.0	5.0	—	TO-3
ST-6000	IR6000	125	400	400	400	1000	100	—	5.0	1.8	2.5	15	—	TO-3
ST-6001	IR6001	125	450	450	450	1000	100	—	5.0	1.8	2.5	15	—	TO-3
ST-6002	IR6002	125	500	500	500	1000	100	—	5.0	1.8	2.5	15	—	TO-3
ST-6060 <sup>2</sup>	IR6060	125	350	350	350	1.0	100	—	10	2.0	3.5	20	—	TO-3
ST-6061 <sup>1</sup>	IR6061	125	400	400	400	1.0	100	—	10	2.0	3.5	20	—	TO-3
ST-6062 <sup>2</sup>	IR6062	125	450	450	450	1.0	100	—	10	2.0	3.5	20	—	TO-3
ST-10000	MJ10000	175	400	350**	400	250	40	400	10	1.9	2.5	10	325	TO-3
ST-10001	MJ10001	175	450	400**	450	250	40	400	10	1.9	2.5	10	325	TO-3
ST-10002	MJ10002	150	400	350**	400	250	30	300	5.0	1.9	2.5	5.0	275	TO-3

\*\*V<sub>CEO</sub>  
1PNP

<sup>2</sup>SPEED UP DIODE  
<sup>1</sup>PINS .058" ± .002"