

SEMICONDUCTOR TECHNOLOGY, INC.

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NPN & PNP HIGH VOLTAGE SILICON HIGH POWER TRANSISTORS

T-33-01

EPOXY CASES

STI Type	Industry Type	Power Dissipation @ 25 °C (watts)	V <sub>CEV</sub> (volts)	V <sub>CEO</sub> (volts)	I <sub>CEV</sub>		h <sub>FE</sub> @I <sub>C</sub>		V <sub>CE</sub> (SAT.) V <sub>BE</sub> (SAT.)@I <sub>C</sub>			C <sub>OB</sub> pF	f <sub>T</sub> (MHz)	CASE STYLE
					(volts)	mA	(Min.)	A	(volts)	(volts)	A			
ST44TE5	D44TE5	75	400	400	400	.10	8.0	4.0	1.0	1.5	4.0	—	—	TO-220
ST-12007	MJE-12007	65	1200	750	1000	1.0	10	2.0	5.0	1.5	2.0	50	4.0	TO-220
ST-13002	MJE-13002	60	800	300	600	1.0	5.0	1.0	1.0	1.2	1.0	21	4.0	TO-220
ST-13003	MJE-13003	60	700	400	700	1.0	5.0	1.0	1.0	1.2	1.0	21	4.0	TO-220
ST-13004	MJE-13004	75	600	300	600	1.0	8.0	2.0	.60	1.2	1.0	65	4.0	TO-220
ST-13005	MJE-13005	75	700	400	700	1.0	8.0	2.0	.60	1.2	1.0	65	4.0	TO-220
ST-13006	MJE-13006	80	600	300	600	1.0	6.0	5.0	1.5	1.6	5.0	110	4.0	TO-220
ST-13007	MJE-13007	80	700	400	700	1.0	6.0	5.0	1.5	1.6	5.0	110	4.0	TO-220
ST-13008	MJE-13008	100	600	300	600	1.0	6.0	8.0	1.5	1.6	8.0	180	4.0	TO-220
ST-13009	MJE-13009	100	700	400	700	1.0	6.0	8.0	1.5	1.6	8.0	180	4.0	TO-220
STH11020*	MJH11020	150	200	200	200	.50	400	10	2.0	2.8	10	400	—	TO-218
STH11022*	MJH11022	150	250	250	250	.50	400	10	2.0	2.8	10	400	—	TO-218
STH13090	MJH13090	150	650	400	650	.50	8.0	10	1.0	1.5	10	350	—	TO-218
STH13091	MJH13091	150	750	450	750	.50	8.0	10	1.0	1.5	10	350	—	TO-218
STH16002	MJH16002	100	850	450	850	.25	5.0	5.0	2.5	1.5	3.0	200	—	TO-218
STH16002A	MJH16002A	100	1000	500	1000	.25	5.0	5.0	2.5	1.5	3.0	200	—	TO-218
STH16004	MJH16004	100	850	450	850	.25	7.0	5.0	2.5	1.5	5.0	300	—	TO-218
STH16006	MJH16006	125	850	450	850	.25	5.0	8.0	2.5	1.5	5.0	350	—	TO-218
STH16006A	MJH16006A	125	1000	500	1000	.25	5.0	8.0	1.5	1.5	5.0	350	—	TO-218
STH16008	MJH16008	125	850	450	850	.25	7.0	8.0	2.5	1.5	5.0	350	—	TO-218
STH16010	MJH16010	135	850	450	850	.25	5.0	15	3.0	1.5	10	400	—	TO-218
STH16010A	MJH16010A	135	1000	500	1000	.25	5.0	15	1.5	1.5	10	400	—	TO-218
STH16012	MJH16012	135	850	450	850	.25	7.0	15	3.0	1.5	10	400	—	TO-218
STH16018	MJH16018	150	1500	800	1500	.25	7.0	5.0	1.5	1.5	5.0	400	—	TO-218
STH16032	MJH16032	125	850	450	850	2.5	10	3.0	2.5	1.5	3.0	—	—	TO-218
STH16034	MJH16034	125	850	450	850	2.5	10	3.0	2.5	1.5	3.0	—	—	TO-218
STI-340	MJE-340	20	300	300	300	.10	30	.05	—	—	—	—	10	TO-126
STI-341	MJE-341	20	175	150	175	.30	25	.05	1.0	1.0	.05	15	15	TO-126
STI-344	MJE-344	20	200	200	200	.10	30	.05	1.0	1.0	.05	15	15	TO-126
STI-350'	MJE-350	20	300	300	300	.10	30	.05	—	—	—	—	—	TO-126
STI-3439	MJE-3439	15	450	350	450	.50	30	.20	.50	1.3	.05	10	15	TO-126
STI-3440	MJE-3440	15	350	250	300	.50	30	.20	.50	1.3	.05	10	15	TO-126
STI-5730'	MJE-5730	40	300	300	300	1.0	10	1.0	1.0	1.5	1.0	—	10	TO-220
STI-5731'	MJE-5731	40	350	350	350	1.0	10	1.0	1.0	1.5	1.0	—	10	TO-220
STI-5732'	MJE-5732	40	400	400	400	1.0	10	1.0	1.0	1.5	1.0	—	10	TO-220
STI-5740*	MJE-5740	80	600	300	600	1.0	200	4.0	2.0	2.5	4.0	—	—	TO-220
STI-5741*	MJE-5741	80	700	350	700	1.0	200	4.0	2.0	2.5	4.0	—	—	TO-220
STI-5742*	MJE-5742	80	800	400	800	1.0	200	4.0	2.0	2.5	4.0	—	—	TO-220
STI-5850'	MJE-5850	80	350	300	350	.50	15	2.0	2.0	1.5	4.0	270	—	TO-220
STI-5851'	MJE-5851	80	400	350	400	.50	15	2.0	2.0	1.5	4.0	270	—	TO-220
STI-5852'	MJE-5852	80	450	400	450	.50	15	2.0	2.0	1.5	4.0	270	—	TO-220
STI-8500	MJE-8500	65	1200	700	1200	.25	7.5	.50	2.0	1.5	1.0	250	—	TO-220
STI-8501	MJE-8501	65	1400	800	1400	.25	7.5	.50	2.0	1.5	1.0	250	—	TO-220
STI-8502	MJE-8502	80	1200	700	1200	.25	7.5	1.0	2.0	1.5	2.5	300	—	TO-220
STI-8503	MJE-8503	80	1400	800	1400	.25	7.5	1.0	2.0	1.5	2.5	300	—	TO-220
STI-13070	MJE-13070	80	650	400	650	.50	8.0	3.0	1.0	1.5	3.0	250	—	TO-220
STI-13071	MJE-13071	80	750	450	750	.50	8.0	3.0	1.0	1.5	3.0	250	—	TO-220
STI-15028	MJE-15028	50	120	120	120	.10	40	3.0	.50	1.0	1.0	—	30	TO-220
STI-15029'	MJE-15029	50	120	120	120	.10	40	3.0	.50	1.0	1.0	—	30	TO-220
STI-15030	MJE-15030	50	150	150	150	.10	40	3.0	.50	1.0	1.0	—	30	TO-220
STI-15031'	MJE-15031	50	150	150	150	.10	40	3.0	.50	1.0	1.0	—	30	TO-220
STI-16032	MJE-16032	80	—	750	750	2.5	10	2.0	1.0	1.0	1.0	—	20	TO-220
STI-16034	MJE-16034	80	—	750	750	2.5	10	2.0	1.0	1.0	1.0	—	20	TO-220
STI-16080	MJE-16080	80	800	400	800	2.5	15	5.0	1.5	1.5	5.0	—	—	TO-220
STI-16081	MJE-16081	80	850	450	850	2.5	15	5.0	1.5	1.5	5.0	—	—	TO-220
STI-17770**	STI-17770	150	400	350	400	.25	100	5.0	2.0	2.0	5.0	350	10	TO-218
STI-17771**	STI-17771	150	450	400	450	.25	100	5.0	2.0	2.0	5.0	350	10	TO-218
STI-17772**	STI-17772	150	500	450	500	.25	100	5.0	2.0	2.0	5.0	350	10	TO-218
STI-17773**	STI-17773	150	400	350	400	.25	100	10	2.0	2.5	10	350	10	TO-218
STI-17774**	STI-17774	150	450	400	450	.25	100	10	2.0	2.5	10	350	10	TO-218

\*DARLINGTON TRANSISTOR  
 'PNP  
 \*SPEED UP DIODE