

SEMICONDUCTOR TECHNOLOGY, INC.

HIGH VOLTAGE SILICON LOW AND MEDIUM POWER TRANSISTORS

NPN & PNP

SEMICONDUCTOR TECHNOLOGY 05E D

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STI Type	Polarity	Power Dissipation @ 25 °C (watts)	V _{CB0} (volts)	V _{CE0} (volts)	I _{CB0}		h _{FE} @ I _C		V _{CE} (SAT.) V _{BE} (SAT.) @ I _C			C _{OB} pF	f _T (MHz)	CASE STYLE
					(volts)	us	(Min.)	mA	(volts)	(volts)	mA			
SE7010	NPN	3.0	250	150	200	1.0	30	25	1.0	1.5	25	3.5	40	TO-39
SE7055	NPN	7.0	300	220	200	1.0	40	10	1.0	1.5	10	3.0	40	TO-39
SE7056	NPN	7.0	400	300	300	1.0	40	10	1.0	1.5	10	3.0	40	TO-39
SE7057	NPN	7.0	500	450	450	1.0	30	10	1.0	1.5	10	25	40	TO-39
STI-10	NPN	1.0	100	100	75	3.0	30	75	1.2	1.1	75	25	30	TO-5
STI-20	NPN	1.0	200	200	175	3.0	30	60	1.2	1.1	60	25	30	TO-5
STI-30	NPN	1.0	300	300	250	3.0	30	55	1.2	1.1	55	25	30	TO-5
STI-40	NPN	1.0	400	400	280	3.0	30	45	1.2	1.1	45	25	30	TO-5
STI-50	NPN	1.0	500	500	350	3.0	30	35	1.4	1.1	35	25	30	TO-5
STI-60	NPN	1.0	600	600	450	4.0	30	25	1.5	1.1	25	25	30	TO-5
STI-70	NPN	1.0	700	700	550	4.0	30	20	1.5	1.1	20	25	30	TO-5
STI-80	NPN	1.0	800	800	640	4.0	30	20	1.5	1.1	20	25	30	TO-5
STI-90	NPN	1.0	900	900	720	4.0	30	20	1.5	1.1	20	25	30	TO-5
STI-100	NPN	1.0	1000	1000	800	4.0	30	20	1.5	1.1	20	25	30	TO-5
STI-205	NPN	2.0	200	200	175	3.0	30	60	1.2	1.1	60	30	30	MD-14
STI-305	NPN	2.0	300	300	250	3.0	30	55	1.2	1.1	55	30	30	MD-14
STI-405	NPN	2.0	400	400	280	3.0	30	45	1.2	1.1	45	30	30	MD-14
STI-505	NPN	2.0	500	500	350	3.0	30	35	1.4	1.1	35	30	30	MD-14
STI-605	NPN	2.0	600	600	450	4.0	30	25	1.5	1.1	25	30	30	MD-14
STI-705	NPN	2.0	700	700	550	4.0	30	20	1.5	1.1	20	30	30	MD-14
STI-805	NPN	2.0	800	800	640	4.0	30	20	1.5	1.1	20	30	30	MD-14
STI-905	NPN	2.0	900	900	720	4.0	30	20	1.5	1.1	20	30	30	MD-14
STI-1005	NPN	2.0	1000	1000	800	4.0	30	20	1.5	1.1	20	30	30	MD-14
STIP-10	PNP	1.0	100	100	75	3.0	30	20	1.5	1.2	20	10	30	TO-5
STIP-20	PNP	1.0	200	200	175	4.0	30	20	1.7	1.2	20	10	30	TO-5
STIP-30	PNP	1.0	300	300	250	4.0	25	20	2.0	1.2	20	10	30	TO-5
STIP-40	PNP	1.0	400	400	280	4.0	25	20	2.0	1.2	20	10	30	TO-5
STIP-50	PNP	1.0	500	500	350	3.0	25	20	5.0	1.2	20	10	30	TO-5
STIP-60	PNP	1.0	600	600	420	3.0	30	25	1.2	1.2	20	15	15	TO-5
STIP-70	PNP	1.0	700	700	490	3.0	30	25	1.2	1.2	20	15	15	TO-5
STIP-80	PNP	1.0	800	800	560	3.0	30	25	1.2	1.2	20	15	15	TO-5
STIP-105	PNP	2.0	100	100	75	3.0	30	20	1.5	1.2	20	15	30	MD-14
STIP-205	PNP	2.0	200	200	175	4.0	30	20	1.7	1.2	20	15	30	MD-14
STIP-305	PNP	2.0	300	300	250	4.0	25	20	2.0	1.2	20	15	30	MD-14
STIP-405	PNP	2.0	400	400	280	4.0	25	20	2.0	1.2	20	15	30	MD-14
STIP-505	PNP	2.0	500	500	350	3.0	25	20	5.0	1.2	20	15	30	MD-14
STIP-605	PNP	1.0	600	600	420	3.0	30	25	1.2	1.2	20	15	15	MD-14
STIP-705	PNP	1.0	700	700	490	3.0	30	25	1.2	1.2	20	15	15	MD-14
STIP-805	PNP	1.0	800	800	560	3.0	30	25	1.2	1.2	20	15	15	MD-14
TIP-508	PNP	4.0	150	150	150	1000	30	1000	1.5	1.5	2000	—	50	TO-39
TIP-522	PNP	4.0	200	200	200	1000	20	1000	2.5	2.2	2000	—	50	TO-39
TIP-524	PNP	1.0	200	200	200	1000	20	2500	2.5	1.5	5000	—	40	TO-39

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