

T-39-01

SII

HIGH VOLTAGE MOS POWER FIELD EFFECT TRANSISTORS

(N-CHANNEL)

STI Type	Industry Type	Breakdown Voltage $V_{(BR)DSS}$ (Volts)	Continuous Current I_D (A)	Drain-Source on Resistance $r_{DS(on)}$ max (Ohms)	Trans-Conductance g_{fs} min @ I_D (Mhos)(A)		Gate Threshold Voltage $V_{GS(th)}$ @ $I_D = 1$ mA min/max (Volts)	Resistive Switching			CASE
								max @ $T_J = 100^{\circ}C$			
								t_{on} (ns)	t_{off} (ns)	I_D (A)	
2N6759 2N6760 2N6761 2N6762 2N6767	2N6759 2N6760 2N6761 2N6762 2N6767	350 400 450 500 350	4.5 5.5 4.0 4.5 12	1.5 1.0 2.0 1.5 .40	3.0 3.5 3.0 3.5 2.5 3.0 2.5 3.0 8.0 9.0	2/4 2/4 2/4 2/4 2/4	30 30 30 30 35	55 55 55 55 150	3.5 3.5 3.0 3.0 9.0	TO-3 TO-3 TO-3 TO-3 TO-3	
2N6768 2N6769 2N6770 2N6912 2N6913	2N6768 2N6769 2N6770 2N6912 2N6913	400 450 500 500 800	14 11 12 9.0 5.3	.30 .50 .50 .80 3.8	8.0 9.0 8.0 7.75 8.0 7.75 2.7 5.0 1.8 3.0	2/4 2/4 2/4 2.1/4 2.1/4	35 35 35 195 230	150 150 150 430 430	9.0 7.75 7.75 2.8 2.5	TO-3 TO-3 TO-3 TO-3 TO-3	
2N6914 2N6917 STM1N45/220 STM1N50/220 STM1N55/220	2N6914 2N6917 MTP1N45 MTP1N50 MTP1N55	500 400 450 500 550	8.3 11.5 1.0 1.0 1.0	.80 .40 6.0 6.0 6.0	2.7 5.0 3.3 5.0 .50 .50 .50 .50 .50 .50	2.1/4 2.1/4 2/4.5 2/4.5 2/4.5	225 195 50 50 50	410 460 200 200 200	5.0 5.0 .50 .50 .50	TO-3 TO-3 TO-220 TO-220 TO-220	
STM1N60/220 STM1N95/3 STM1N95/220 STM1N100/3 STM1N100/220	MTP1N60 MTM1N95 MTP1N95 MTM1N100 MTP1N100	600 950 950 1000 1000	1.0 1.0 1.0 1.0 1.0	6.0 10 10 10 10	.50 .50 .50 .50 .50 .50 .50 .50 .50 .50	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	50 50 50 50 50	200 200 200 200 200	.50 .50 .50 .50 .50	TO-220 TO-3 TO-220 TO-3 TO-220	
STM2N35/220 STM2N40/220 STM2N45/3 STM2N45/220 STM2N50/3	MTP2N35 MTP2N40 MTM2N45 MTP2N45 MTM2N50	350 400 450 450 500	2.0 2.0 2.0 2.0 2.0	4.0 4.0 4.0 4.0 4.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	40 40 40 40 40	60 60 60 60 60	1.0 1.0 1.0 1.0 1.0	TO-220 TO-220 TO-3 TO-220 TO-3	
STM2N50/220 STM2N85/3 STM2N85/220 STM2N90/3 STM2N90/220	MTP2N50 MTM2N85 MTP2N85 MTM2N90 MTP2N90	500 850 850 900 900	2.0 2.0 2.0 2.0 2.0	4.0 8.0 8.0 8.0 8.0	1.0 1.0 .50 1.0 .50 1.0 .50 1.0 .50 1.0	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	40 50 50 50 50	60 200 200 200 200	1.0 1.0 1.0 1.0 1.0	TO-220 TO-3 TO-220 TO-3 TO-220	
STM3N35/3 STM3N35/220 STM3N40/3 STM3N40/220 STM3N55/3	MTM3N35 MTP3N35 MTM3N40 MTP3N40 MTM3N55	350 350 400 400 550	3.0 3.0 3.0 3.0 3.0	3.3 3.3 3.3 3.3 2.5	.75 1.5 .75 1.5 .75 1.5 .75 1.5 1.5 1.5	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	40 40 40 40 50	60 60 60 60 180	1.5 1.5 1.5 1.5 1.5	TO-3 TO-220 TO-3 TO-220 TO-3	
STM3N55/220 STM3N60/3 STM3N60/220 STM4N45/3 STM4N45/220	MTP3N55 MTM3N60 MTP3N60 MTM4N45 MTP4N45	550 600 600 450 450	3.0 3.0 3.0 4.0 4.0	2.5 2.5 2.5 1.5 1.5	1.5 1.5 1.5 1.5 1.5 1.5 1.5 2.0 1.5 2.0	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	50 50 50 50 50	180 180 180 200 200	1.5 1.5 1.5 2.0 2.0	TO-220 TO-3 TO-220 TO-3 TO-220	
STM4N50/3 STM4N50/220 STM5N35/3 STM5N35/220 STM5N40/3	MTM4N50 MTP4N50 MTM5N35 MTP5N35 MTM5N40	500 500 350 350 400	4.0 4.0 5.0 5.0 5.0	1.5 1.5 1.0 1.0 1.0	1.5 2.0 1.5 2.0 2.0 2.5 2.0 2.5 2.0 2.5	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	50 50 50 50 50	200 200 200 200 200	2.0 2.0 2.5 2.5 2.5	TO-3 TO-220 TO-3 TO-220 TO-3	
STM5N40/220 STM5N55/3 STM6N60/3 STM7N45/3 STM7N50/3	MTP5N40 MTM5N55 MTM6N60 MTM7N45 MTM7N50	400 550 600 450 500	5.0 5.0 6.0 7.0 7.0	1.0 1.0 1.2 .80 .80	2.0 2.5 2.0 2.5 2.0 3.0 2.0 3.5 2.0 3.5	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	50 50 60 60 60	200 200 200 200 200	2.5 2.5 3.0 3.5 3.5	TO-220 TO-3 TO-3 TO-3 TO-3	
STM8N35/3 STM8N40/3 STM15N40/3 STM15N45/3 STM15N50/3	MTM8N35 MTM8N40 MTM15N40 MTM15N45 MTM15N50	350 400 400 450 500	8.0 8.0 15 15 15	.55 .55 .30 .40 .40	3.0 4.0 3.0 4.0 6.0 7.5 4.0 7.5 4.0 7.5	2/4.5 2/4.5 2/4.5 2/4.5 2/4.5	60 60 120 120 120	200 200 400 400 400	4.0 4.0 7.5 7.5 7.5	TO-3 TO-3 TO-3 TO-3 TO-3	
STM-205 STM-230 STM-231 STM-232 STM-320	STM-205 STM-230 STM-231 STM-232 IRF320	200 350 400 450 400	.50 3.0 3.0 3.0 3.0	10.0 3.0 3.0 3.0 1.8	1.5 .25 1.5 1.5 1.5 1.5 1.5 1.5 1.0 1.5	1.5/4.0 1.5/4.0 1.5/4.0 1.5/4.0 2/4	75 75 75 75 40	200 150 150 150 100	.50 2.0 2.0 2.0 1.5	TO-220 TO-220 TO-220 TO-220 TO-3	