

SEMICONDUCTOR TECHNOLOGY, INC.

T-39-01

3131 S.E. Jay Street

Stuart, Florida 34997

HIGH VOLTAGE MOS POWER FIELD EFFECT TRANSISTORS

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(N-CHANNEL)

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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 gfs min @ I_D (Mhos)(A)	Gate Threshold Voltage $V_{GS(th)}$ @ $I_D = 1$ mA min/max (Volts)	Resistive Switching max @ $T_J = 100^\circ C$			CASE
							t_{on}	t_{off}	I_D	
							(ns)	(ns)	(A)	
STM-321	IRF321	350	3.0	1.8	1.0 1.5	2/4	40	100	1.5	TO-3
STM-322	IRF322	400	2.5	2.5	1.0 1.5	2/4	40	100	1.5	TO-3
STM-323	IRF323	350	2.5	2.5	1.0 1.5	2/4	40	100	1.5	TO-3
STM-330	IRF330	400	5.5	1.0	3.0 3.0	2/4	30	55	3.0	TO-3
STM-331	IRF331	350	5.5	1.0	3.0 3.0	2/4	30	55	3.0	TO-3
STM-332	IRF332	400	4.5	1.5	3.0 3.0	2/4	30	55	3.0	TO-3
STM-350	IRF350	400	15	.30	8.0 8.0	2/4	35	150	8.0	TO-3
STM-351	IRF351	350	15	.30	8.0 8.0	2/4	35	150	8.0	TO-3
STM-352	IRF352	400	13	.40	8.0 8.0	2/4	35	150	8.0	TO-3
STM-353	IRF353	350	13	.40	8.0 8.0	2/4	35	150	8.0	TO-3
STM-360	STM-360	350	6.0	1.4	3.0 3.0	1.5/4.0	75	150	3.0	TO-3
STM-361	STM-361	400	6.0	1.4	3.0 3.0	1.5/4.0	75	150	3.0	TO-3
STM-362	STM-362	450	6.0	1.4	3.0 3.0	1.5/4.0	75	150	3.0	TO-3
STM-420	IRF420	500	2.5	3.0	1.0 1.0	2/4	60	60	1.0	TO-3
STM-421	IRF421	450	2.5	3.0	1.0 1.0	2/4	60	60	1.0	TO-3
STM-422	IRF422	500	2.0	4.0	1.0 1.0	2/4	60	60	1.0	TO-3
STM-423	IRF423	450	2.0	4.0	1.0 1.0	2/4	60	60	1.0	TO-3
STM-430	IRF430	500	4.5	1.5	2.5 2.5	2/4	30	55	2.5	TO-3
STM-431	IRF431	450	4.5	1.5	2.5 2.5	2/4	30	55	2.5	TO-3
STM-432	IRF432	500	4.0	2.0	2.5 2.5	2/4	30	55	2.5	TO-3
STM-433	IRF433	450	4.0	2.0	2.5 2.5	2/4	30	55	2.5	TO-3
STM-450	IRF450	500	13	.40	6.0 7.0	2/4	35	150	7.0	TO-3
STM-451	IRF451	450	13	.40	6.0 7.0	2/4	35	150	7.0	TO-3
STM-452	IRF452	500	12	.50	6.0 7.0	2/4	35	150	7.0	TO-3
STM-453	IRF453	450	12	.50	6.0 7.0	2/4	35	150	7.0	TO-3
STM-710	IRF710	400	1.5	3.6	.50 .80	2/4	10	10	.80	TO-220
STM-711	IRF711	350	1.5	3.6	.50 .80	2/4	10	10	.80	TO-220
STM-712	IRF712	400	1.3	5.0	.50 .80	2/4	10	10	.80	TO-220
STM-713	IRF713	350	1.3	5.0	.50 .80	2/4	10	10	.80	TO-220
STM-720	IRF720	400	3.0	1.8	1.0 1.5	2/4	40	100	1.5	TO-220
STM-721	IRF721	350	3.0	1.8	1.0 1.5	2/4	40	100	1.5	TO-220
STM-722	IRF722	400	2.5	2.5	1.0 1.5	2/4	40	100	1.5	TO-220
STM-723	IRF723	350	2.5	2.5	1.0 1.5	2/4	40	100	1.5	TO-220
STM-730	IRF730	400	5.5	1.0	3.0 3.0	2/4	30	55	3.0	TO-220
STM-731	IRF731	350	5.5	1.0	3.0 3.0	2/4	30	55	3.0	TO-220
STM-732	IRF732	400	4.5	1.5	3.0 3.0	2/4	30	55	3.0	TO-220
STM-733	IRF733	350	4.5	1.5	3.0 3.0	2/4	30	55	3.0	TO-220
STM-740	IRF740	400	10	.55	4.0 5.0	2/4	35	90	5.0	TO-220
STM-741	IRF741	350	10	.55	4.0 5.0	2/4	35	90	5.0	TO-220
STM-742	IRF742	400	8.0	.80	4.0 5.0	2/4	35	90	5.0	TO-220
STM-743	IRF743	350	8.0	.80	4.0 5.0	2/4	35	90	5.0	TO-220
STM-820	IRF820	500	2.5	3.0	1.0 1.0	2/4	60	60	1.0	TO-220
STM-821	IRF821	450	2.5	3.0	1.0 1.0	2/4	60	60	1.0	TO-220
STM-822	IRF822	500	2.0	4.0	1.0 1.0	2/4	60	60	1.0	TO-220
STM-823	IRF823	450	2.0	4.0	1.0 1.0	2/4	60	60	1.0	TO-220
STM-830	IRF830	500	4.5	1.5	2.5 2.5	2/4	30	55	2.5	TO-220
STM-831	IRF831	450	4.5	1.5	2.5 2.5	2/4	30	55	2.5	TO-220
STM-832	IRF832	500	4.0	2.0	2.5 2.5	2/4	30	55	2.5	TO-220
STM-833	IRF833	450	4.0	2.0	2.5 2.5	2/4	30	55	2.5	TO-220
STM-840	IRF840	500	8.0	.85	4.0 4.0	2/4	35	90	4.0	TO-220
STM-841	IRF841	450	8.0	.85	4.0 4.0	2/4	35	90	4.0	TO-220
STM-842	IRF842	500	7.0	1.1	4.0 4.0	2/4	35	90	4.0	TO-220
STM-843	IRF843	450	7.0	1.1	4.0 4.0	2/4	35	90	4.0	TO-220
STM-3110	STM-3110	350	11.0	.60	6.0 5.5	1.5/4.0	100	250	5.0	TO-3
STM-3111	STM-3111	400	11.0	.60	6.0 5.5	1.5/4.0	100	250	5.0	TO-3
STM-3112	STM-3112	450	11.0	.80	5.0 5.5	1.5/4.0	100	250	5.0	TO-3
STM-3600	STM-3600	800	6.0	2.5	2.0 3.0	1.5/4.0	100	250	2.0	TO-3