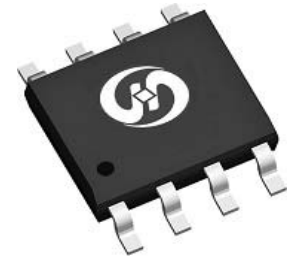
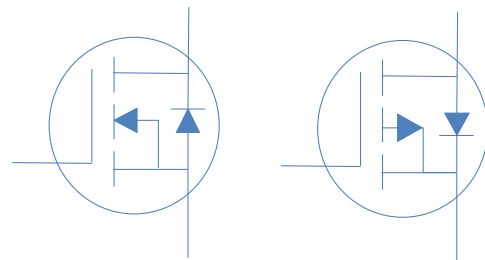


	N-CH	P-CH	
V_{DS}	30	-30	V
R	21	35	m
I	7.5	-6	A



HTS210C03	SO8	TS210C03
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Absolute Maximum Ratings at T_j

	Symbol		N-CH	P-CH	Unit
	I_D	T_A	7.5	-6	A
		T_A	5.5	-5	
	V_{DS}	-	30	-30	V
	V_{GS}	-	±20		V
	I_{DM}	-	30	-24	A
	P_D	T_A	2		
	T, T_{stg}	-	-55 to 150		

Absolute Maximum Ratings

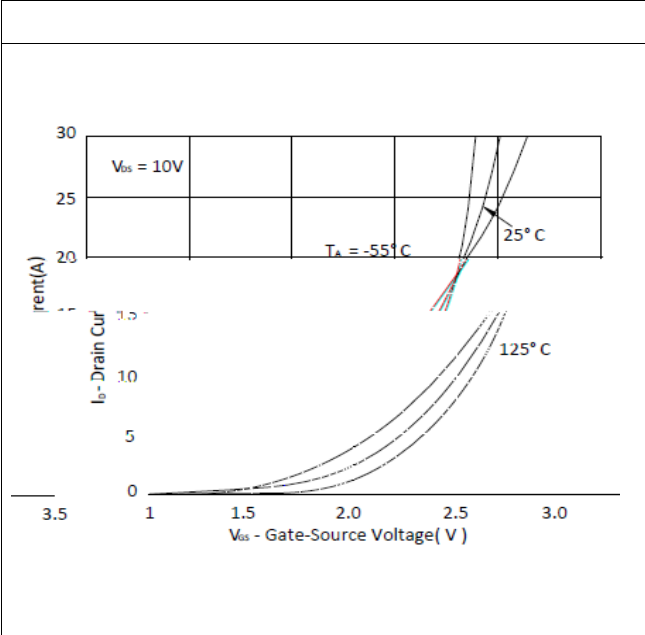
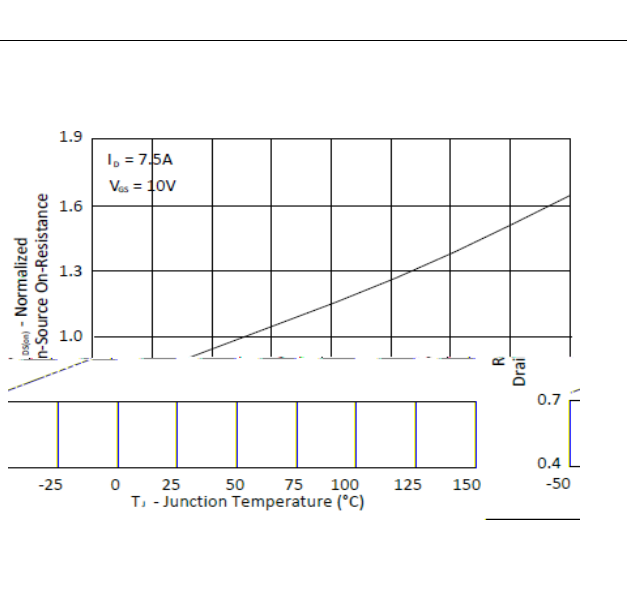
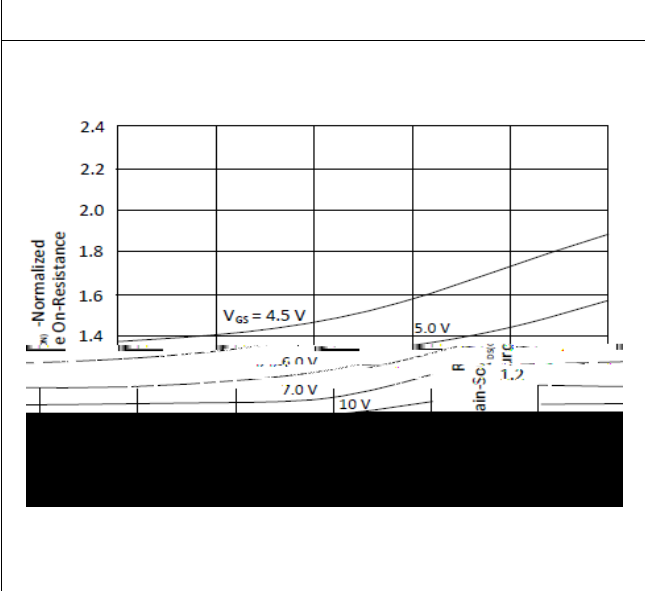
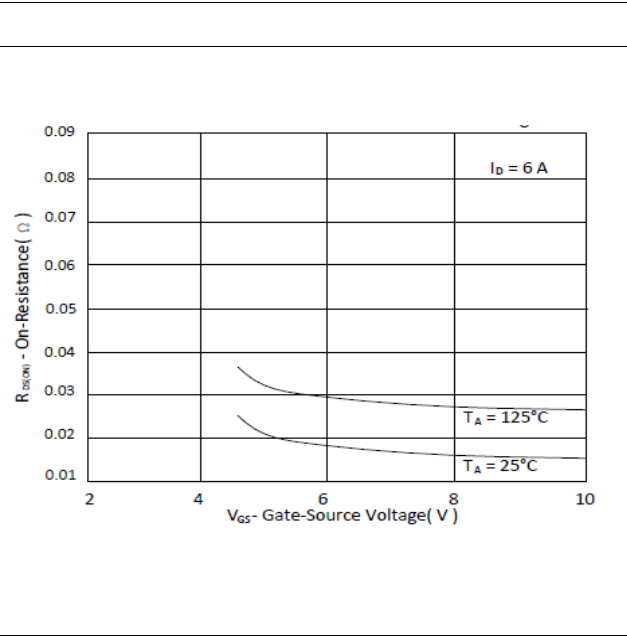
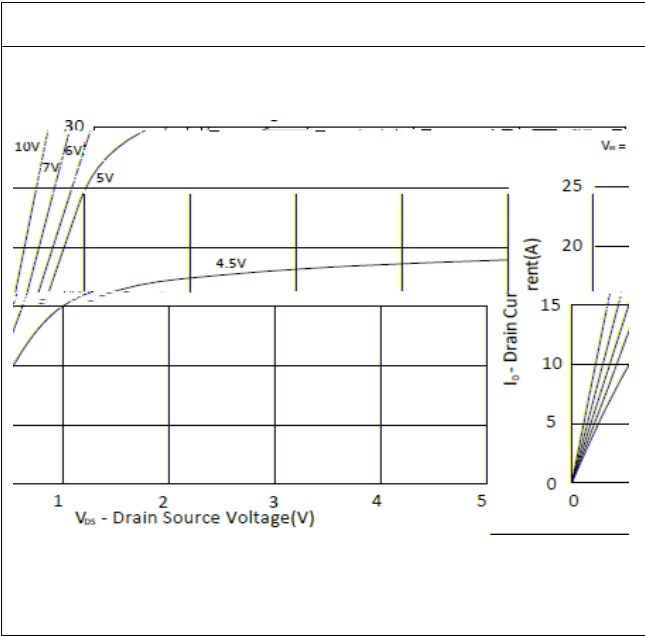
	Symbol	Max	Unit
	R	62.5	
	R	25	

J

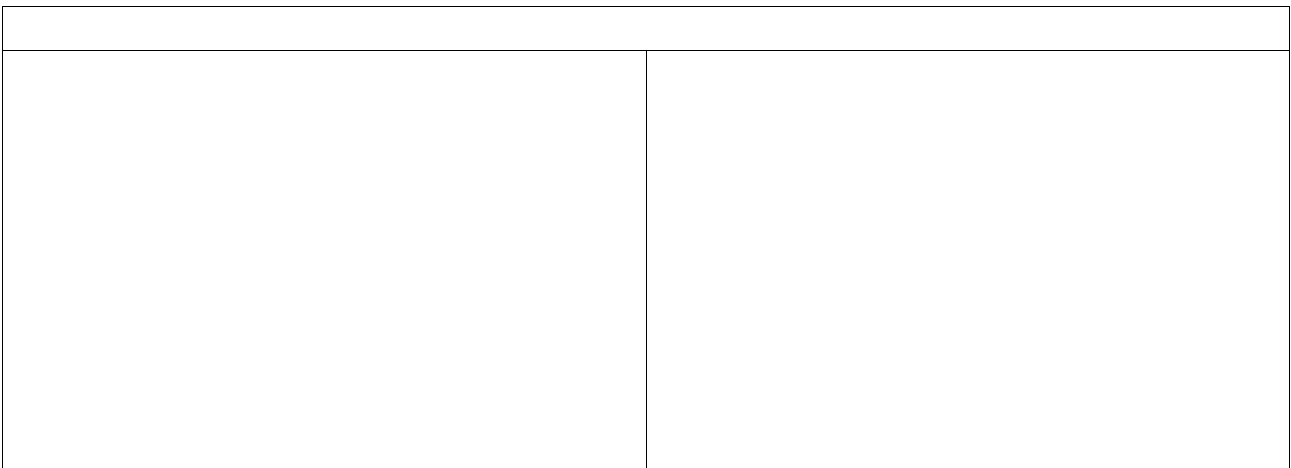
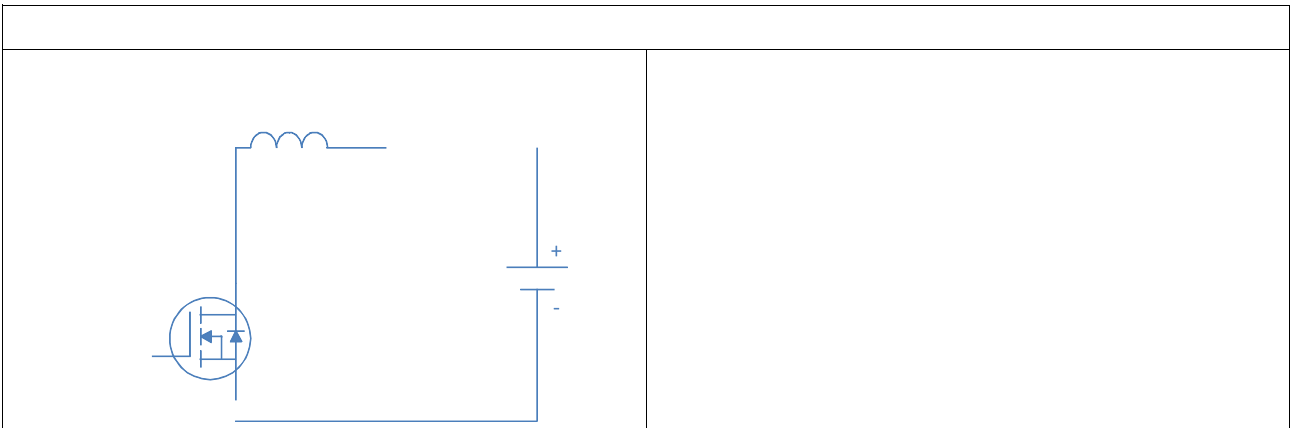
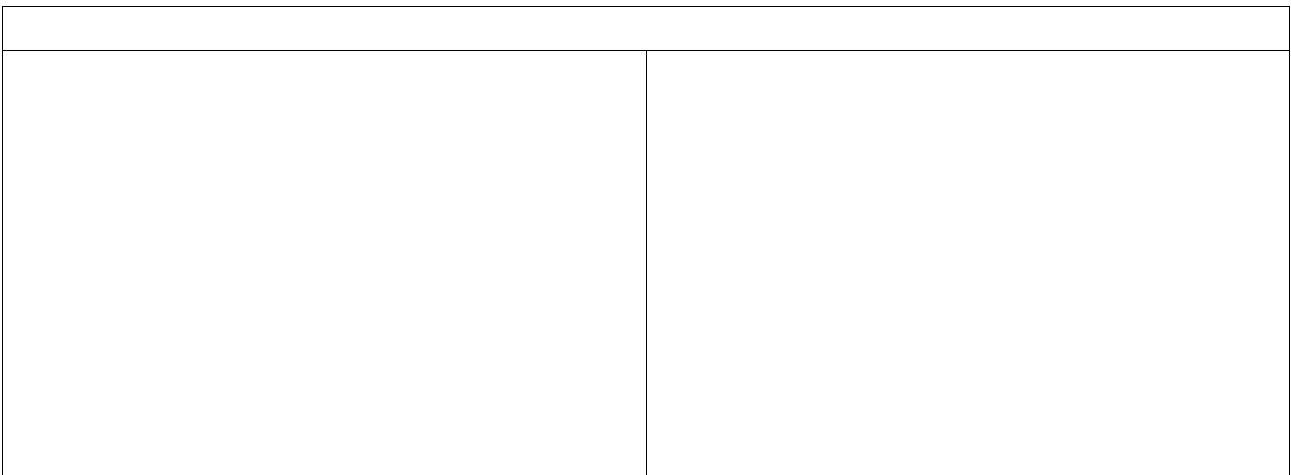
	Symbol		Value			Unit
			min		max	
	V	$V_{GS}=0V, I_D=250\text{ A}$	30	-	-	V
	V	$V_{GS}=V_{DS}, I_D=250\text{ A}$	1.0	1.5	3.0	
	I_{DSS}	$V_{GS}=0V, V_{DS}=24V, T_j$	-	-	1	A
		$V_{GS}=0V, V_{DS}=20V, T_j$	-	-	25	
	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	± 100	nA
	R	$V_{GS}=10V, I_D=7.5A$	-	17	21	m
		$V_{GS}=4.5V, I_D=5.5A$	-	25	30	
	g	$V_{DS}=5V, I_D=7.5A$	-	16	-	S

	C_{iss}		-	520	-	
	C_{oss}	$V_{GS}=0V, V_{DS}$	-	88	-	
	C		-	62	-	
	Q_g	$V_{DD}=15V, I_D=7.5A, V_{GS}=10V$	-	11.5	-	nC
	Q_g		-	5.0	-	
	Q_{gs}		-	1.6	-	
	Q		-	2.8	-	
Rise time	t	$V_{DD}=15V, I_D=1A, V_{GS}=10V,$ $R_G=6\text{ }\mu\text{s}$	-	11	-	ns
	t		-	16	-	
	t		-	36	-	
	t		-	20	-	

	V_{SD}	$V_{GS}=0V, I = 2.3A$	-		1.3	V
	t	l	-	50	-	ns
	Q		-	2	-	nC







J

	Symbol		Value			Unit
			min		max	
	V	$V_{GS}=0V, I_D=-250 A$	-30	-	-	V
	V	$V_{GS}=V_{DS}, I_D=-250 A$	-1.0	-1.5	-3.0	
	I_{DSS}	$V_{GS}=0V, V_{DS}=-24V, T_j$	-	-	-1	A
		$V_{GS}=0V, V_{DS}=-20V, T_j$	-	-	-25	
	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	± 100	nA
	R	$V_{GS}=-10V, I_D=-6A$	-	30	35	m
		$V_{GS}=-4.5V, I_D=-5A$	-	50	60	
	g	$V_{DS}=-5V, I_D=-6A$	-	12	-	S

	C_{iss}		-		-	
	C_{oss}	$V_{GS}=0V, V_{DS}$	-	143	-	
	C		-	108	-	
	Q_g	$V_{DD}=-15V, I_D=-6A, V_{GS}=-10V$	-	13.3	-	nC
	Q_g		-	7.0	-	
	Q_{gs}		-	2.1	-	
	Q		-	3.2	-	
Rise time	t	$V_{DD}=-15V, I_D=-1A, V_{GS}=-10V,$ $R_G=6 \Omega$	-	12	-	ns
	t		-	18	-	
	t		-	38	-	
	t		-	22	-	

	V_{SD}	$V_{GS}=0V, I = -4A$	-		-1.3	V
	t	I	-	55	-	ns
	Q		-	2.2	-	nC



