

-30	V
45	mΩ
-6	A

HTS280C03      SO8      TS280C03

#### Absolute Maximum Ratings at $T_J$

Symbol		N-CH	P-CH	Unit
$I_D$	$T_A$		-6	A
	$T_A$	6		
$V_{DS}$	-			V
$V_{GS}$	-			
$I_{DM}$	-			
$P_D$	$T_A$		2	
$T, T_{stg}$	-		-55 to 150	

#### Absolute Maximum Ratings

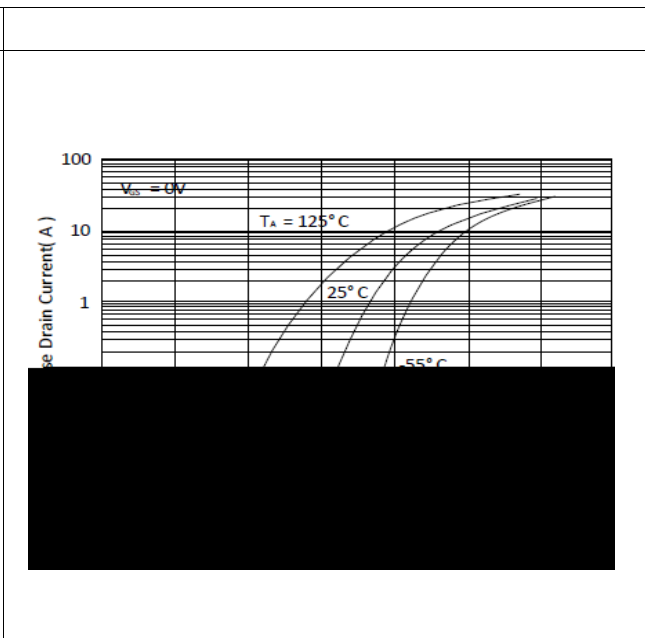
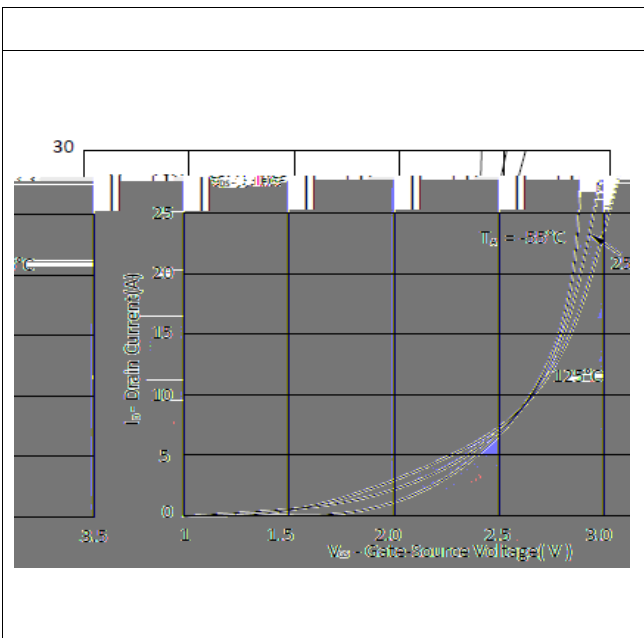
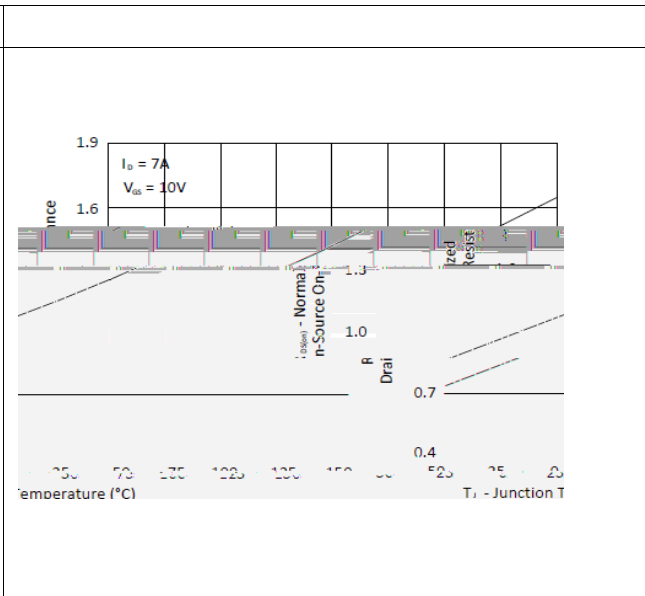
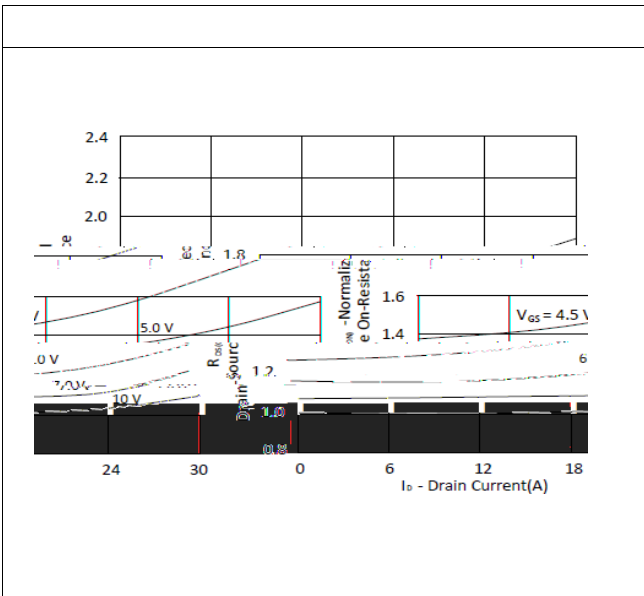
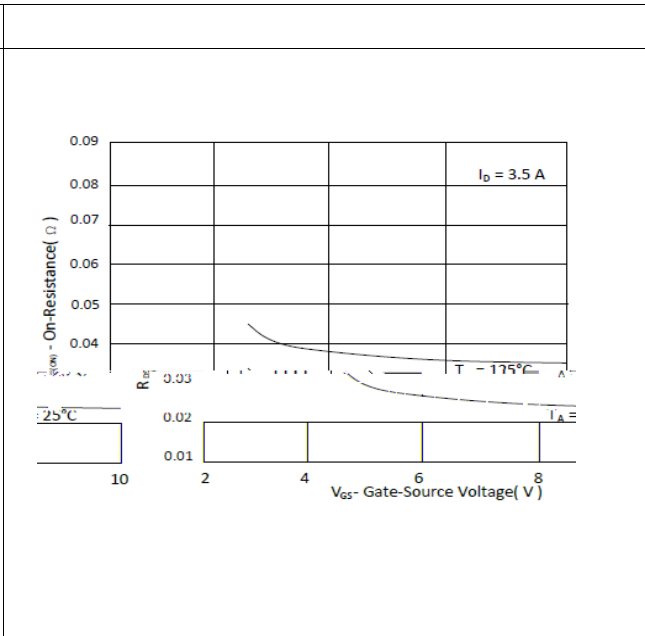
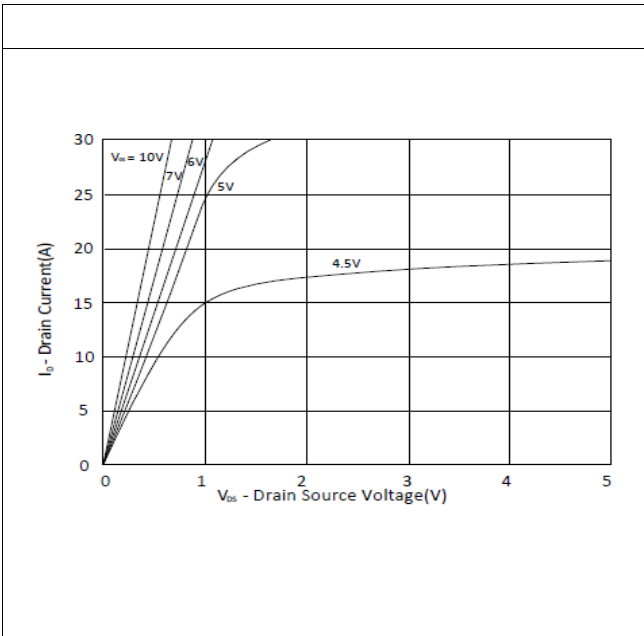
Symbol	Max	Unit
$R_{\theta}$	62.5	
$R_{\theta}$	25	

J

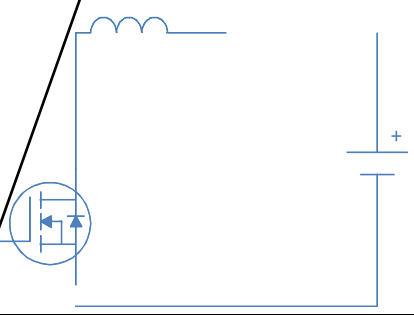
	Symbol		Value			Unit
			min		max	
	V	$V_{GS}=0V, I_D=250\mu A$	30	-	-	V
	V	$V_{GS}=V_{DS}, I_D=250\mu A$	1.0	1.5	3.0	
	$I_{DSS}$	$V_{GS}=0V, V_{DS}=24V, T_j$	-	-	1	$\mu A$
		$V_{GS}=0V, V_{DS}=20V, T_j$	-	-	25	
	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	$\pm 100$	nA
	R	$V_{GS}=10V, I_D=7A$	-	24	28	m $\Omega$
		$V_{GS}=4.5V, I_D=6A$	-	33	44	
	g	$V_{DS}=5V, I_D=7A$	-	14	-	S

	$C_{iss}$		-	520	-	
	$C_{oss}$	$V_{GS}=0V, V_{DS}$	-	88	-	
	C		-	62	-	
	$Q_g$		-	11.5	-	nC
	$Q_{gs}$	$V_{DD}=15V, I_D=7A, V_{GS}=10V$	-	1.6	-	
	Q		-	2.8	-	
	t		-	11	-	ns
Rise time	t	$V_{DD}=10V, I_D=1A, V_{GS}=10V,$	-	16	-	
	t	$R_G=6\Omega,$	-	36	-	
	t		-	20	-	

	$V_{SD}$	$V_{GS}=0V, I = 2.3A$	-		1.3	V
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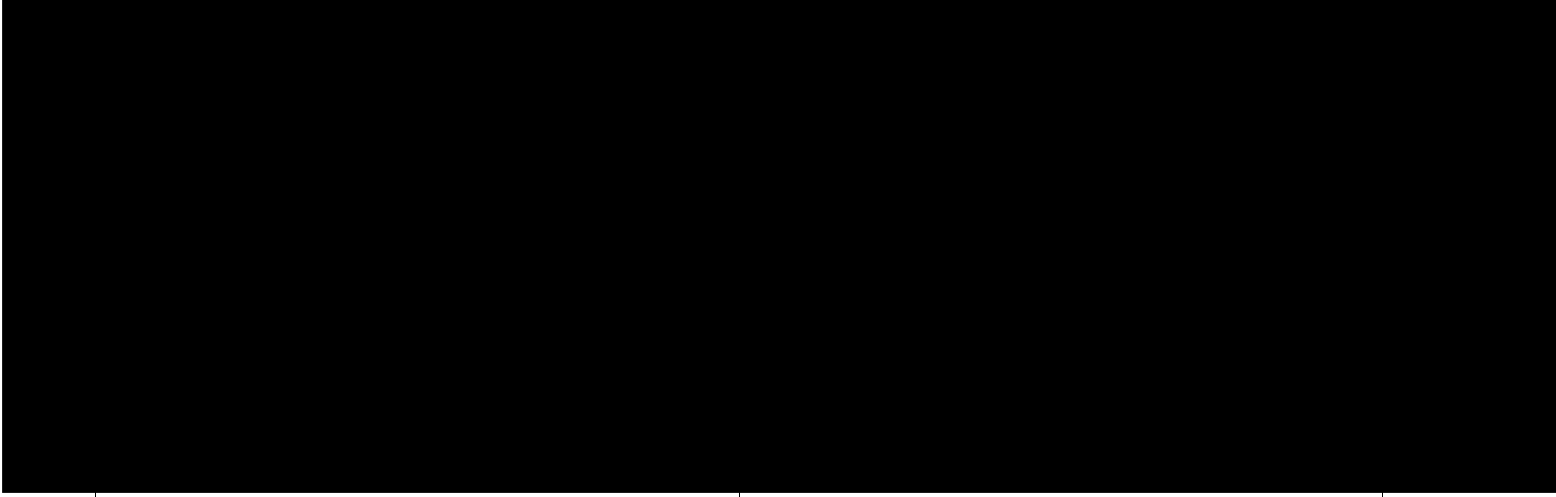
	

J

	Symbol		Value			Unit
			min		max	
	V	$V_{GS}=0V, I_D=-250\mu A$	-30	-	-	V
	V	$V_{GS}=V_{DS}, I_D=-250\mu A$	-1.0	-1.5	-3.0	
	$I_{DSS}$	$V_{GS}=0V, V_{DS}=-24V, T_j$	-	-	-1	$\mu A$
		$V_{GS}=0V, V_{DS}=-20V, T_j$	-	-	-25	
	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	$\pm 100$	nA
	R	$V_{GS}=-10V, I_D=-6A$	-		45	m $\Omega$
		$V_{GS}=-4.5V, I_D=-5A$	-	56	72	
	g	$V_{DS}=-5V, I_D=-6A$	-	16	-	S

	$C_{iss}$		-	820	-	
	$C_{oss}$	$V_{GS}=0V, V_{DS}$	-	122	-	
	C		-		-	
	$Q_g$		-		-	nC
	$Q_{gs}$	$V_{DD}=-15V, I_D=-6A, V_{GS}=-10V$	-	2.2	-	
	Q		-	2.5	-	
Rise time	t		-	10	-	ns
	t	$V_{DD}=-10V, I_D=-1A, V_{GS}=-10V,$	-	15	-	
	t	$R_G=6\Omega,$	-	28	-	
	t		-	15	-	

	$V_{SD}$	$V_{GS}=0V, I = -2.3A$	-		-1.3	V
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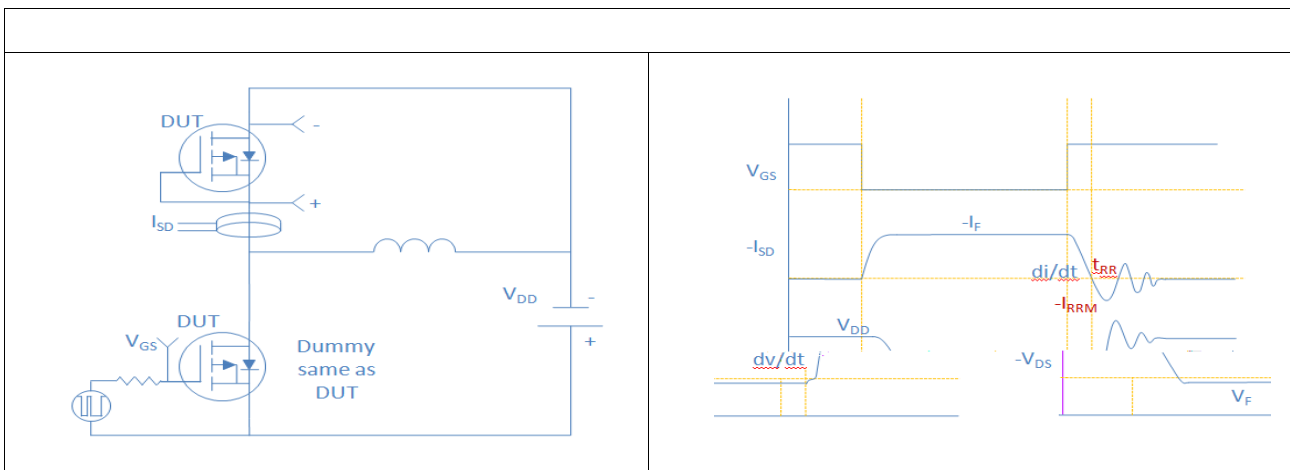
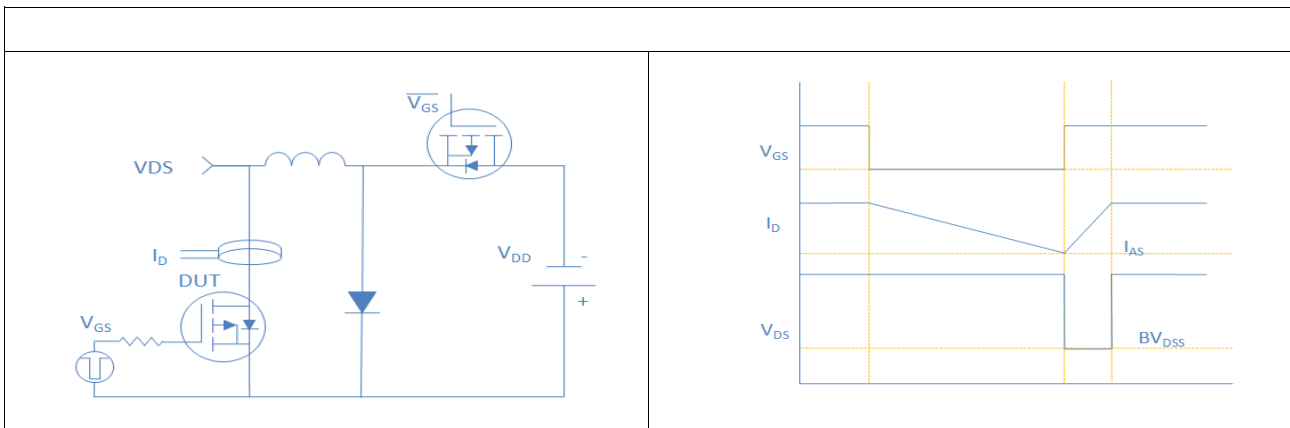
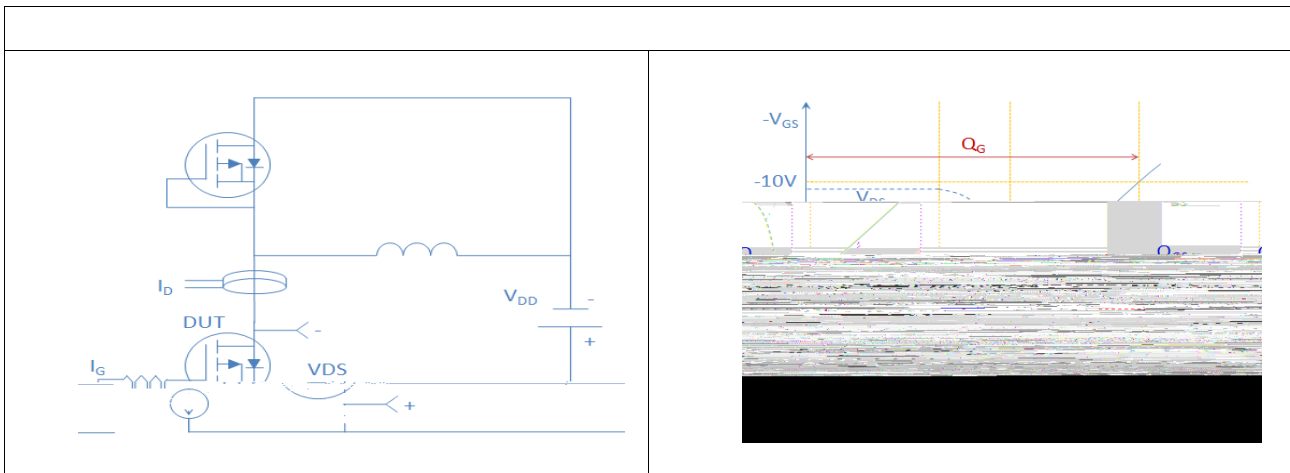
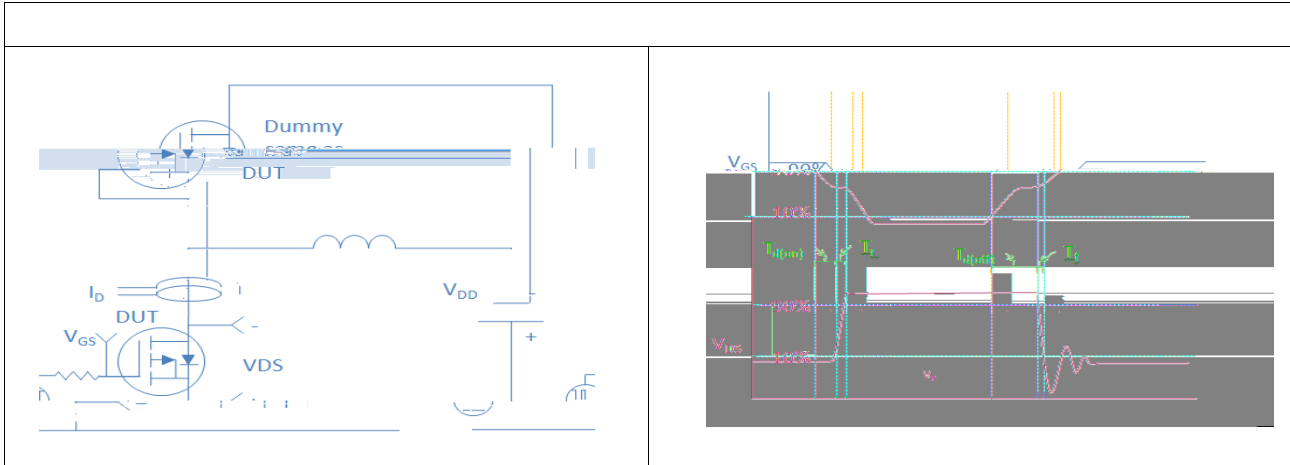


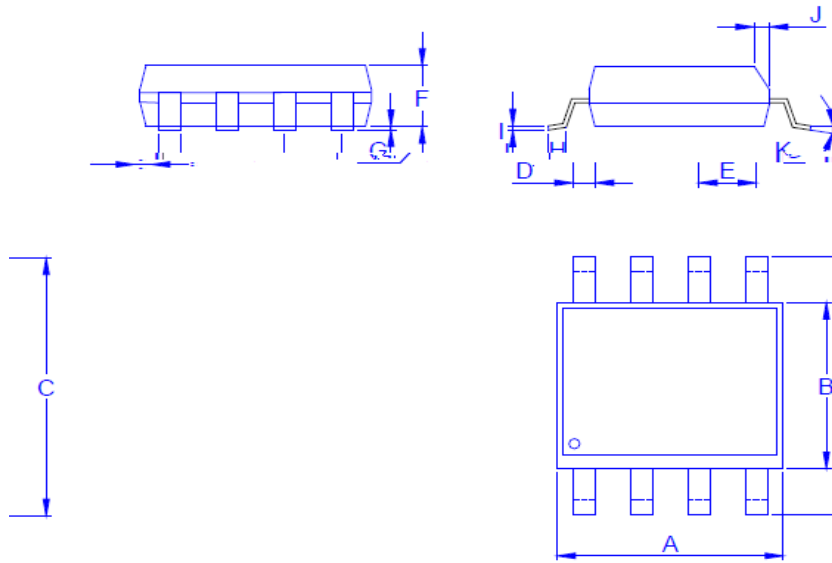
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Dimension in mm

Dimension	A	B	C	D	E	F	G	H	I	J	K
Min.	4.70	3.70	5.80	0.33		1.20	0.08	0.40	0.19	0.25	0°
Typ.					1.27						
Max.	5.10	4.10	6.20	0.51		1.62	0.28	0.83	0.26	0.50	8°