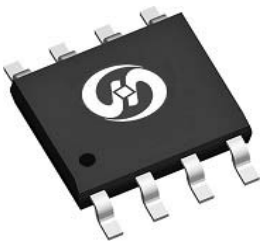
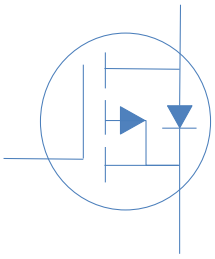
V_{DS}		-60	V
$R_{DS(on),typ}$	V_{GS}=10V	35	m
$R_{DS(on),typ}$	V_{GS}=4.5V	45	m
$I_{D\ (Sillicon\ Limited)}$		-7.5	A





Part Number	Package	Marking
HTS410P06	SOIC-8	TS410P06

Absolute Maximum Ratings at T_j

Parameter	Symbol	Conditions	Value	Unit
Continuous Drain Current (Silicon Limited)	I_D	T_C	-7.5	A
		T_C	-5	
Drain to Source Voltage	V_{DS}	-	-60	V
Gate to Source Voltage	V_{GS}	-	±20	V
Pulsed Drain Current	I_{DM}	-	-30	A
	$_{AS}$	L=0.1mH, T_C	1.25	mJ
	P_D	T_C	3	W
Operating and Storage Temperature	T_J, T_{stg}	-	-55 to175	

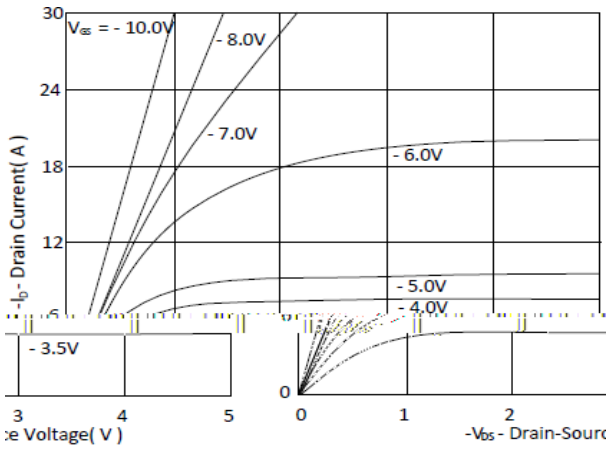
Absolute Maximum Ratings

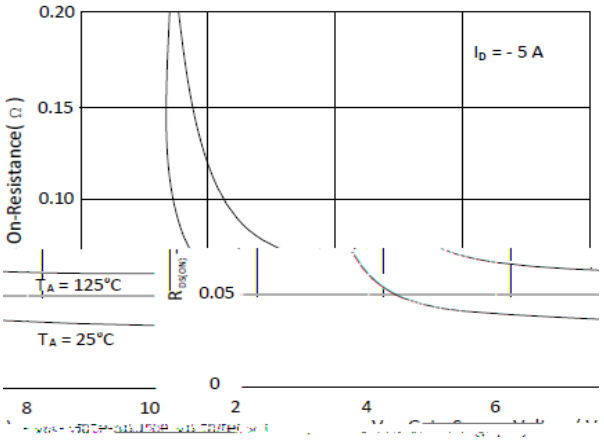
Parameter	Symbol	Max	Unit
	R_{JA}	50	
	R_{JC}	25	

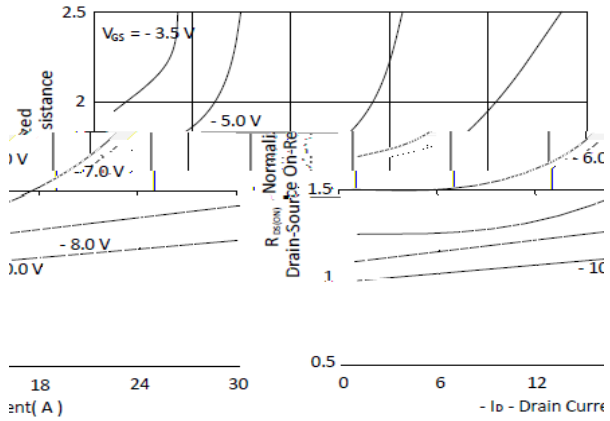
	Symbol	Conditions	Value			Unit
			min	typ	max	
	$V_{(BR)DSS}$	V_{GS}=0V, I_D=-250 A	-60	-	-	V
	V	V_{GS}=V_{DS}, I_D=-250 A	-1.0	-1.8	-3.0	
ain Current	I_{DSS}	V_{GS}=0V, V_{DS}=-48V, T_j	-	-	-1	A
		V_{GS}=0V, V_{DS}=-40V, T_j	-	-	-25	
kage Current	I_{GSS}	V_{GS}=±20V, V_{DS}=0V	-	-	±100	nA
n Resistance	$R_{DS(on)}$	V_{GS}=-10V, I_D=-7.5A	-	35	40	m
		V_{GS}=-4.5V, I_D=-5A	-	45	55	
ce	g	V_{DS}=-5V, I_D=-7.5A	-	32	-	S
e	R_G	V_{GS}=15mV, V_{DS}	-	6.5	-	

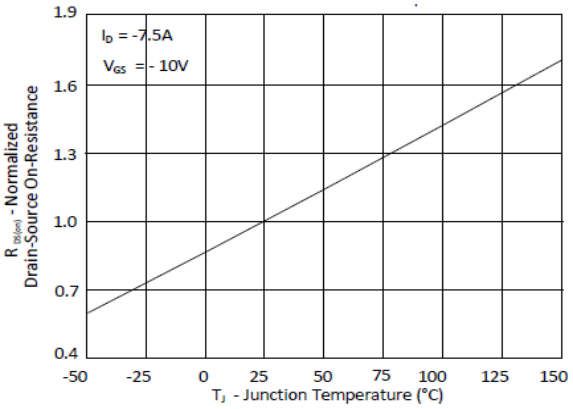
nce	C_{iss}	V_{GS}=0V, V_{DS}	-	2975	-	
tance	C_{oss}		-	240	-	
	C_{rss}		-	150	-	
	Q_g(10V)	V_{DD}=-30V, I_D=-7.5A, V_{GS}=-10V	-	45	-	nC
	Q_{gs}		-	8.0	-	
	Q_{gd}		-	7.5	-	
Time	$t_{d(on)}$	V_{DD}=-10V, I_D=-1A, V_{GS}=-10V, R_G=6 ,	-	12	-	ns
	t_r		-	15	-	
	t		-	40	-	
	t		-	20	-	

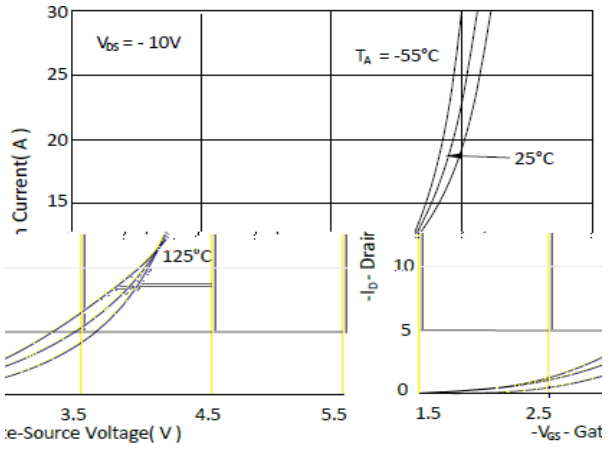
	V_{SD}	V_{GS}=0V, I =-2.3A	-		1.3	V

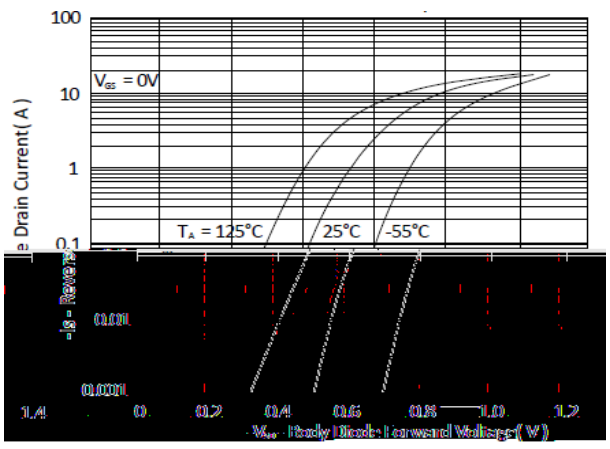

V_{GS} = - 10.0V
- 8.0V
- 7.0V
- 6.0V
- 5.0V
- 4.0V
- 3.5V
- I_D - Drain Current(A)
-V_{DS} - Drain-Sourc

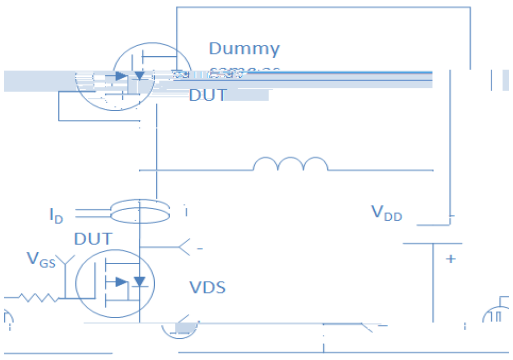

I_D = - 5 A
On-Resistance(Ω)
T_A = 125°C
T_A = 25°C
$R_{DS(ON)}$

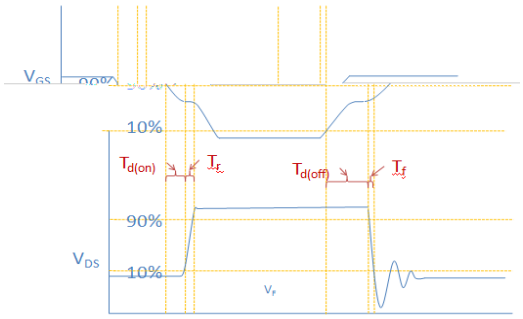

V_{GS} = - 3.5 V
- 5.0 V
- 7.0 V
- 8.0 V
Drain-Source On-Re
- I_D - Drain Curre

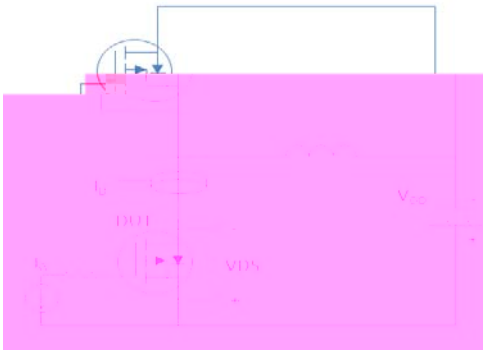

I_D = -7.5A
V_{GS} = - 10V
$R_{DS(on)}$ - Normalized
Drain-Source On-Resistance
T_J - Junction Temperature (°C)

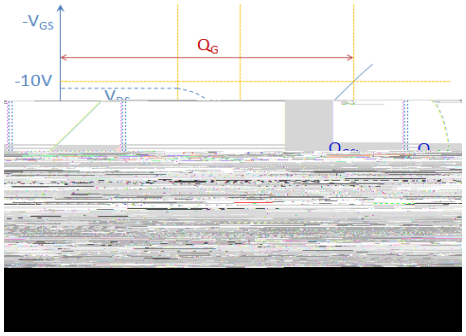

V_{DS} = - 10V
T_A = -55°C
25°C
125°C
-I_D - Drain
-V_{GS} - Gat

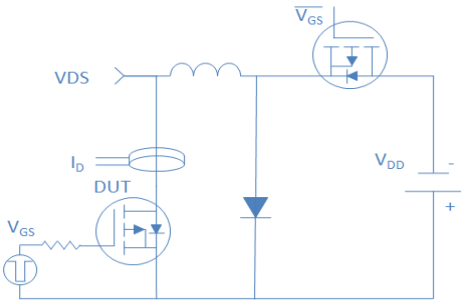

V_{GS} = 0V
T_A = 125°C
25°C
-55°C
- I_S - Reverse Drain Current (A)
- V_{SD} - Body Diode Forward Voltage (V)

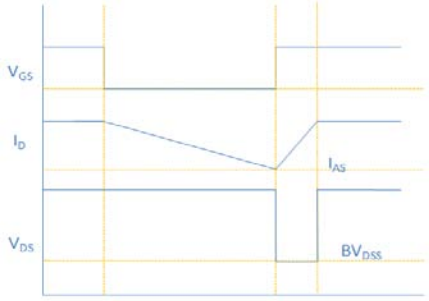




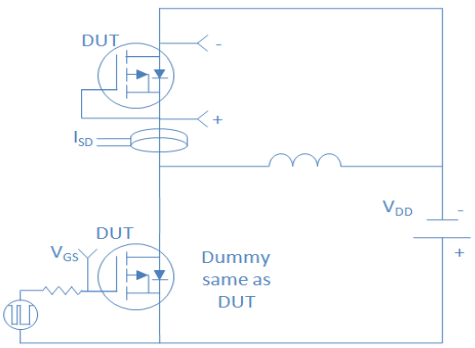


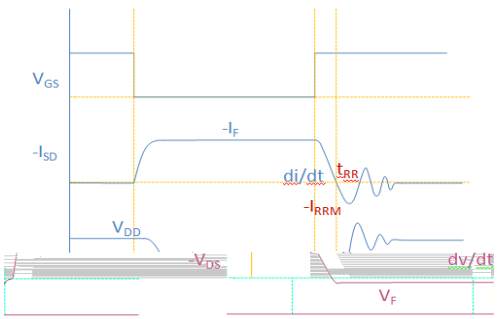






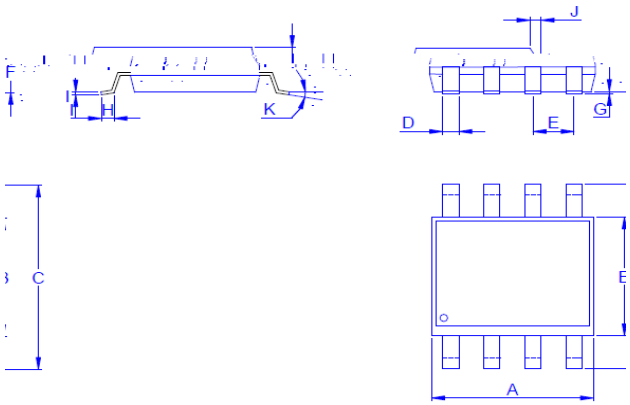
Diode Recovery Test





Package Outline

SIIC-8, 8leads



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°