

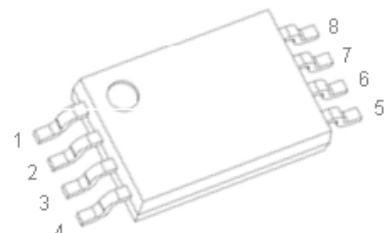
TSSOP-8 Plastic-Encapsulate MOSFETs

8810B

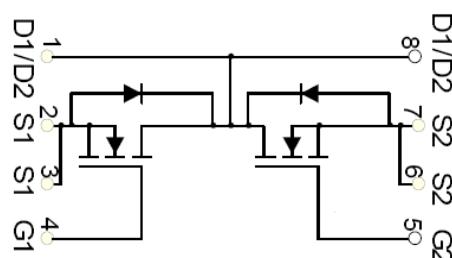
8810B Dual N-Channel MOSFET

$V_{(BR)DSS}$	$R_{DS(on)}\text{MAX}$	$I_D \text{ Max}$
20V	0.015Ω @ 4.5V	6.0A
	0.019Ω @ 2.5V	

TSSOP-8



Equivalent Circuit



MARKING



Y :year code W :week code

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	20	V
Gate-Source Voltage	V_{GS}	± 12	V
Continuous Drain Current	I_D	6	A
Pulsed Drain Current (note 1)	I_{DM}	25	A
Thermal Resistance from Junction to Ambient (note 2)	$R_{\theta JA}$	100	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55~+150	°C
Lead Temperature for Soldering Purposes(1/8" from case for 10 s)	T_L	260	°C



SHENZHEN TUOFENG SEMICONDUCTOR TECHNOLOGY CO.,LTD

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MOSFET ELECTRICAL CHARACTERISTICS

T_a = 25 °C unless otherwise specified

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
STATIC CHARACTERISTICS						
Drain-source breakdown voltage	V _{(BR)DSS}	V _{GS} = 0V, I _D = 250μA	20			V
Zero gate voltage drain current	I _{DSS}	V _{DS} = 19V, V _{GS} = 0V			100	nA
Gate-body leakage current	I _{GSS}	V _{GS} = ±12V, V _{DS} = 0V			±100	nA
Gate threshold voltage (note 3)	V _{GS(th)}	V _{DS} = V _{GS} , I _D = 250μA	0.5		1.0	V
Drain-source on-resistance (note 3)	R _{DS(on)}	V _{GS} = 4.5V, I _D = 6A	9.0	12.5	15	mΩ
		V _{GS} = 2.5V, I _D = 5.5A	12.0	15.5	19	mΩ
Forward transconductance (note 3)	g _F	V _{DS} = 5V, I _D = 6A		10		S
Diode forward voltage (note 3)	V _{SD}	I _S = 1.50A, V _{GS} = 0V			1.0	V
DYNAMIC CHARACTERISTICS (note 4)						
Input Capacitance	C _{iss}	V _{DS} = 10V, V _{GS} = 0V, f = 1MHz		615		pF
Output Capacitance	C _{oss}			150		pF
Reverse Transfer Capacitance	C _{rss}			120		pF
SWITCHING CHARACTERISTICS (note 4)						
Turn-on delay time	t _{d(on)}	V _{GS} = 5V, V _{DS} = 10V, R _L = 1.4Ω, R _{GEN} = 3Ω		7.2		ns
Turn-on rise time	t _r			13		ns
Turn-off delay time	t _{d(off)}			29		ns
Turn-off fall time	t _f			11		ns
Total Gate Charge	Q _g	V _{DS} = 10V, V _{GS} = 4.5V, I _D = 6A		12		nC
Gate-Source Charge	Q _{gs}			1.2		nC
Gate-Drain Charge	Q _{gd}			3.0		nC

Notes :

1. Repetitive rating: Pulse width limited by maximum junction temperature
2. Surface Mounted on FR4 board, t ≤ 10 sec.
3. Pulse test : Pulse width ≤ 300μs, duty cycle ≤ 2%.
4. Guaranteed by design, not subject to production.

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS:

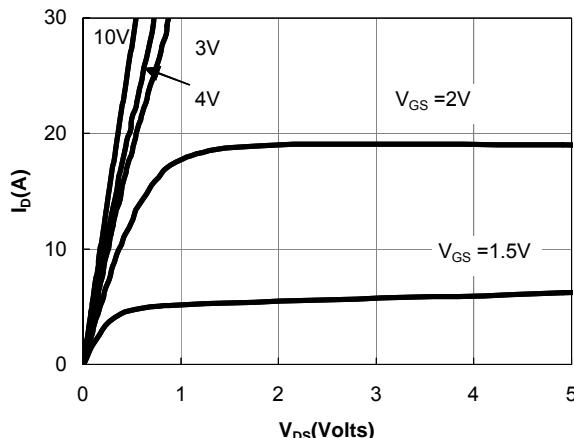


Figure 1: On-Regions Characteristics

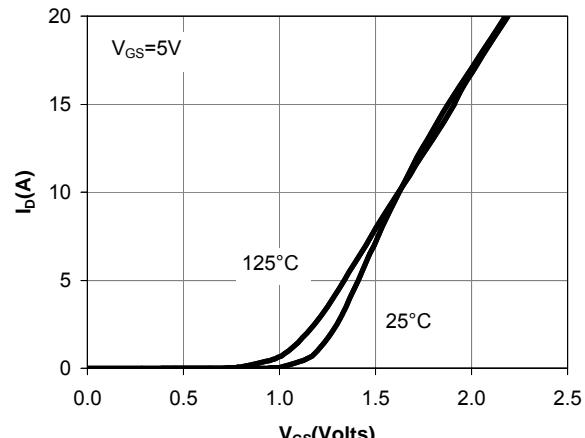


Figure 2: Transfer Characteristics

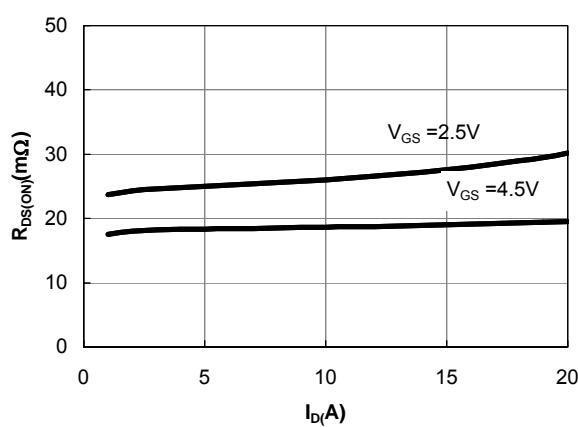


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

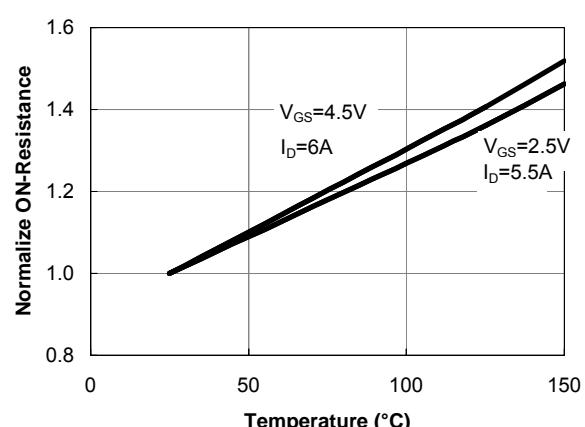


Figure 4: On-Resistance vs. Junction Temperature

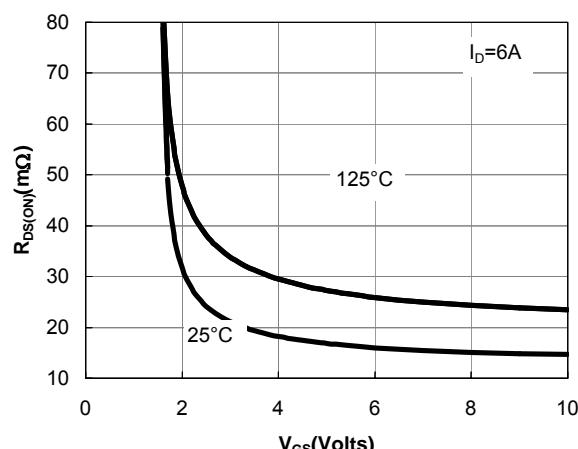


Figure 5: On-Resistance vs. Gate-Source Voltage

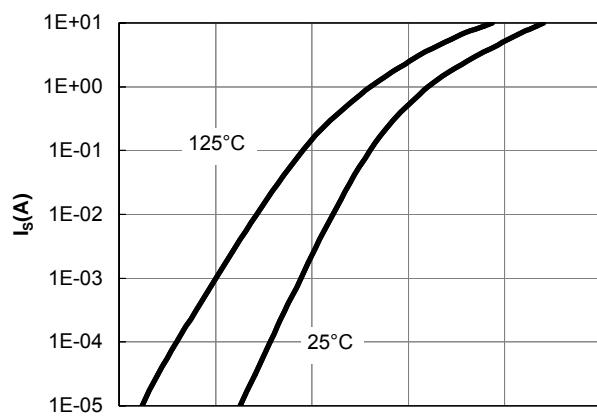
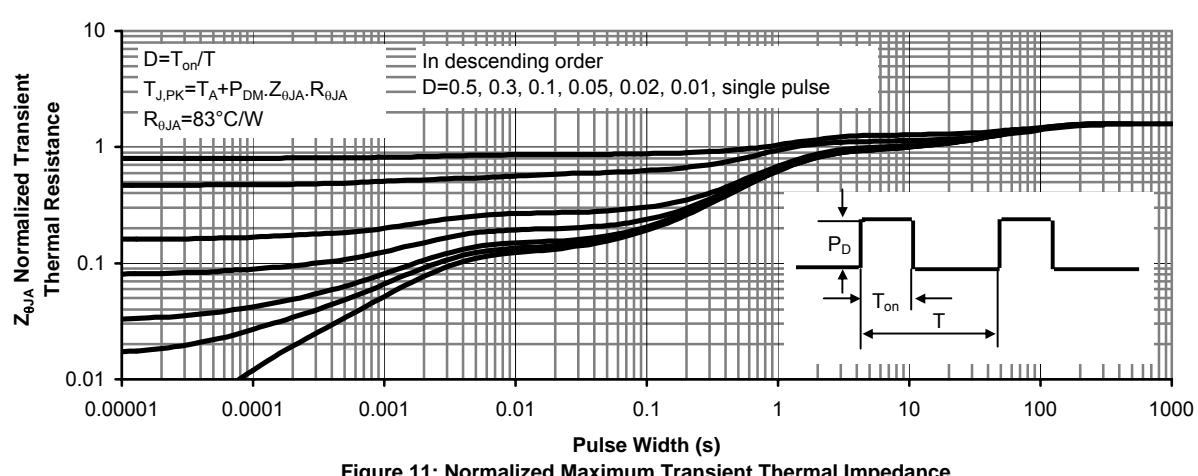
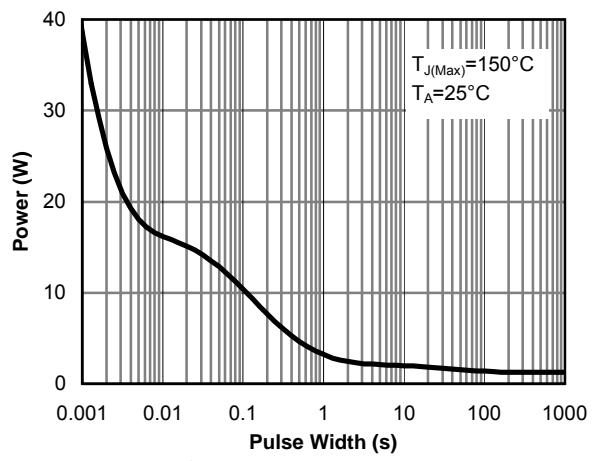
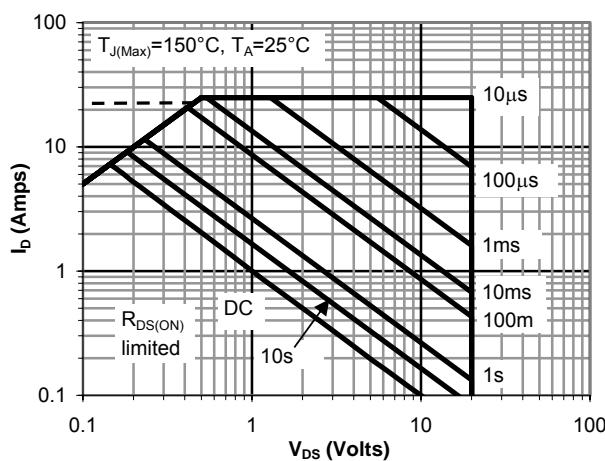
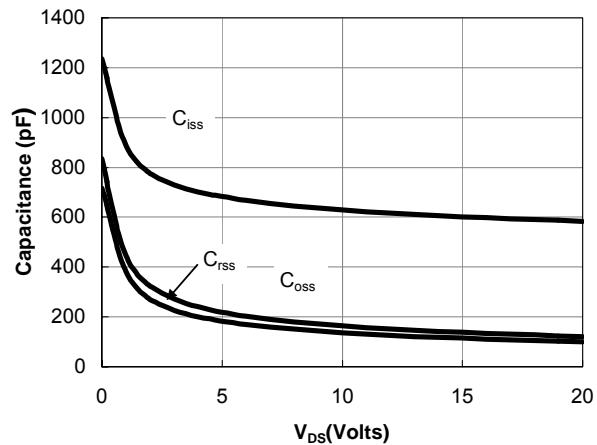
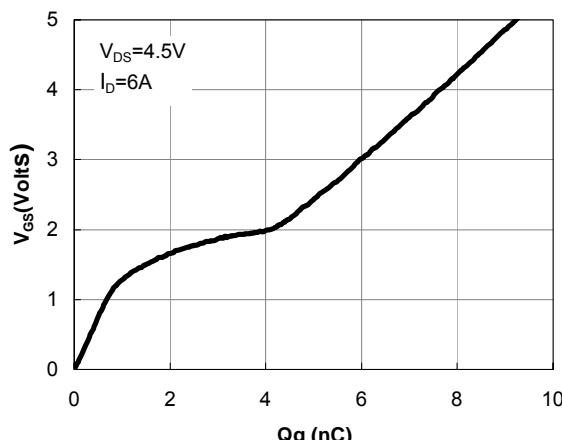


Figure 6: Body-Diode Characteristics

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS¹


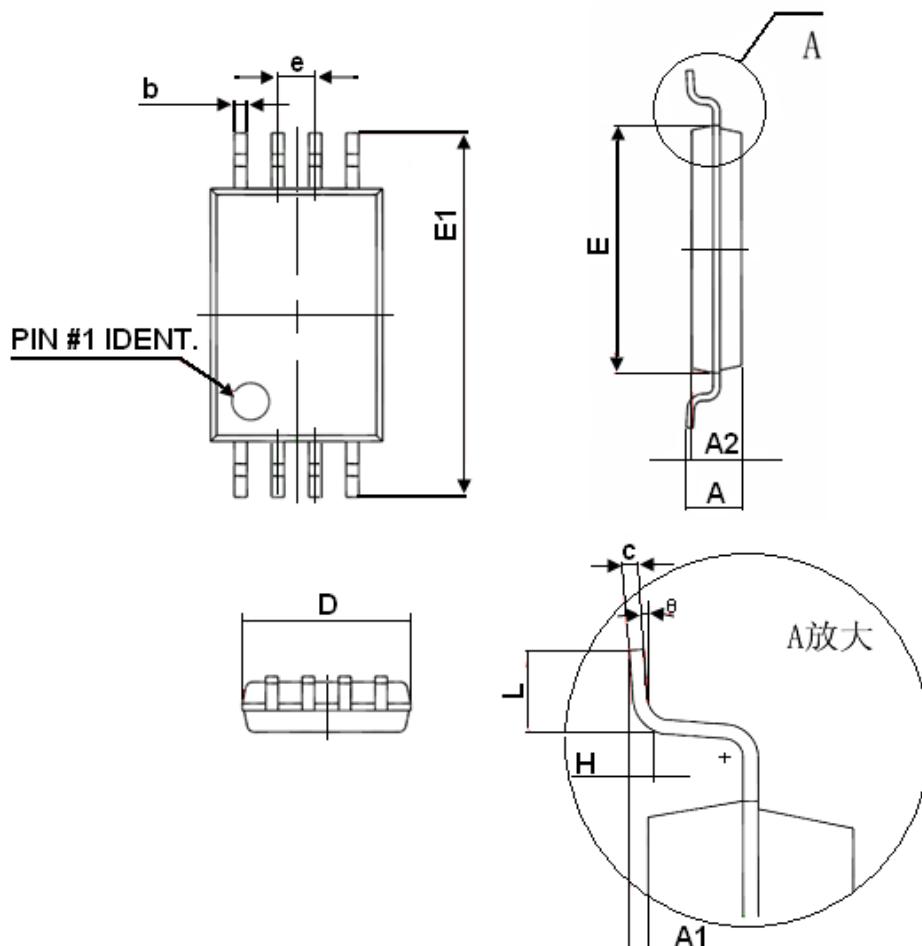


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TSSOP-8 Package Information



Symbol	Dimensions In Millimeters	
	Min	Max
D	2.900	3.100
E	4.300	4.500
b	0.190	0.300
c	0.090	0.200
E1	6.250	6.550
A		1.100
A2	0.800	1.000
A1	0.020	0.150
e	0.65(BSC)	
L	0.500	0.700
H	0.25(TYP)	
θ	1°	7°

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