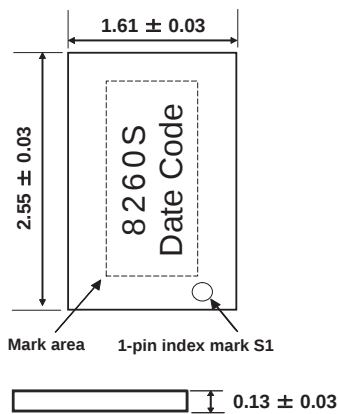
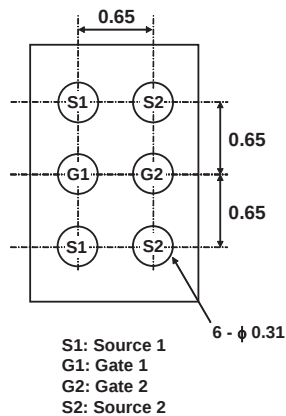
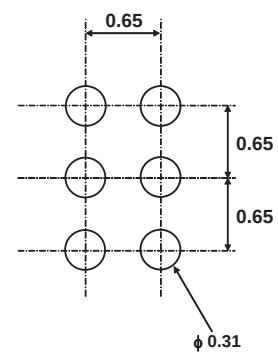


**Dual N-Channel Enhancement Mode Field Effect Transistor****PRODUCT SUMMARY**

V _{SSS}	I _S	R _{SS(ON)} (mΩ) Max
20V	8A	10.5 @ V _{GS} =4.5V
		10.8 @ V _{GS} =4.0V
		11.8 @ V _{GS} =3.8V
		13.5 @ V _{GS} =3.1V
		16.0 @ V _{GS} =2.5V

FEATURES

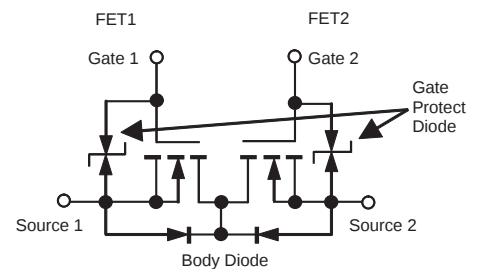
- Super high dense cell design for low R_{DS(ON)}.
- Rugged and reliable.
- Wafer level CSP.
- ESD Protected.

WLCSP**TOP VIEW****BOTTOM VIEW****LAND PATTERN (REFERENCE)**

Unit : mm

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Symbol	Parameter	Limit	Units
V _{SSS}	Source-Source Voltage	20	V
V _{GSS}	Gate-Source Voltage	±12	V
I _S	Source Current-Continuous ^a	8	A
I _{SP}	-Pulsed ^b	80	A
P _T	Total Power Dissipation ^a	1.3	W
T _J , T _{STG}	Operating Junction and Storage Temperature Range	-55 to 150	°C



SC8260S

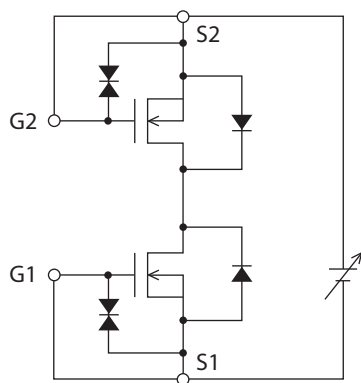
Ver 1.0

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

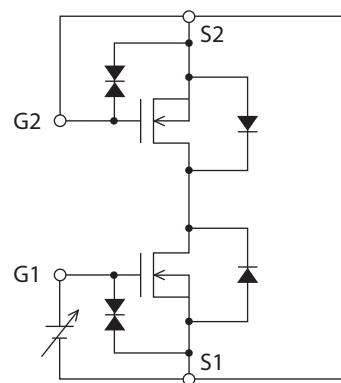
Symbol	Parameter	Conditions	Min	Typ	Max	Units
OFF CHARACTERISTICS						
BV _{SSS}	Source-Source Breakdown Voltage	V _{GS} =0V , I _S =250uA	20			V
I _{SSS}	Zero Gate Voltage Source Current	V _{SS} =20V , V _{GS} =0V			1	uA
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±8V , V _{SS} =0V			±1	uA
ON CHARACTERISTICS						
V _{GS(th)}	Gate Threshold Voltage	V _{SS} =V _{GS} , I _S =1mA	0.5	0.8	1.3	V
R _{SS(ON)}	Source-Source On-State Resistance	V _{GS} =4.5V , I _S =3A	6.5	8.5	10.5	m ohm
		V _{GS} =4.0V , I _S =3A	7.0	8.7	10.8	m ohm
		V _{GS} =3.8V , I _S =3A	7.5	8.9	11.8	m ohm
		V _{GS} =3.1V , I _S =3A	8.0	9.7	13.5	m ohm
		V _{GS} =2.5V , I _S =3A	9.0	11.4	16.0	m ohm
g _{FS}	Forward Transconductance	V _{SS} =5V , I _S =3A		14		S
DYNAMIC CHARACTERISTICS ^c						
C _{ISS}	Input Capacitance	V _{SS} =10V,V _{GS} =0V f=1.0MHz		561		pF
C _{OSS}	Output Capacitance			289		pF
C _{RSS}	Reverse Transfer Capacitance			102		pF
SWITCHING CHARACTERISTICS ^c						
t _{D(ON)}	Turn-On Delay Time	V _{DD} =20V I _S =3A V _{GS} =4.0V R _{GEN} =6 ohm		286		ns
t _r	Rise Time			1000		ns
t _{D(OFF)}	Turn-Off Delay Time			3247		ns
t _f	Fall Time			2525		ns
Q _g	Total Gate Charge	V _{DD} =20V,I _S =6A, V _{G1S1} =4.0V		17.4		nC
DRAIN-SOURCE DIODE CHARACTERISTICS AND MAXIMUM RATINGS						
V _{FSS}	Diode Forward Voltage	V _{GS} =0V,I _S =1.5A		0.77	1.2	V
Note						
a.Mounted on FR4 board of 25.4mm x 25.4mm x 1.6mm.						
b.Pulse Test:Pulse Width ≤ 10us, Duty Cycle ≤ 1%.						
c.Guaranteed by design, not subject to production testing.						

Dec,06,2016

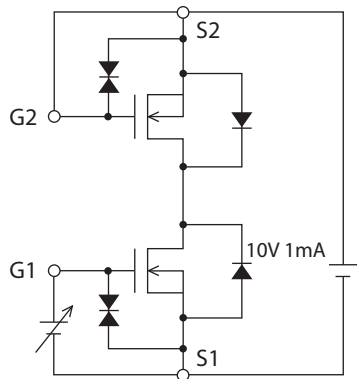
V_{SSS} / I_{SSS}



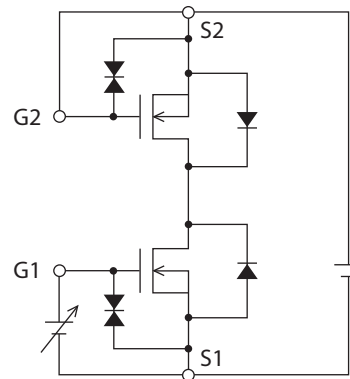
$I_{GSS} (+) / (-)$



$V_{GS} \text{ (off)}$

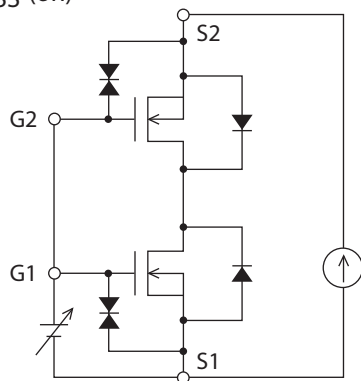


$|y_{fs}|$

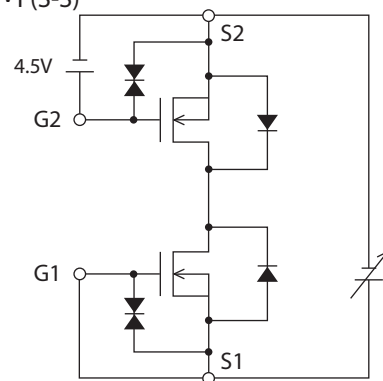


* Note: Connect the measurement terminal reversely if you want to measure the FET2 side.

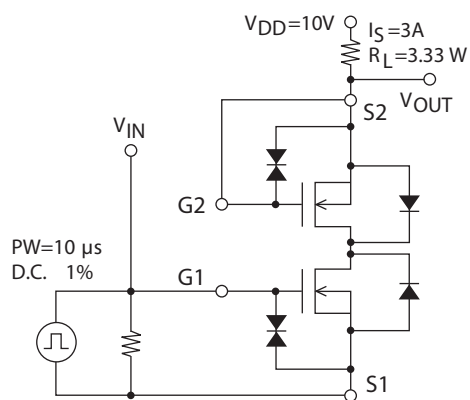
$R_{SS} \text{ (on)}$



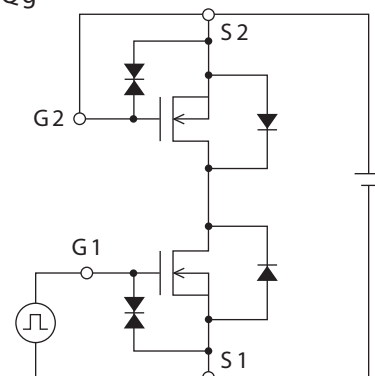
$V_F \text{ (S-S)}$



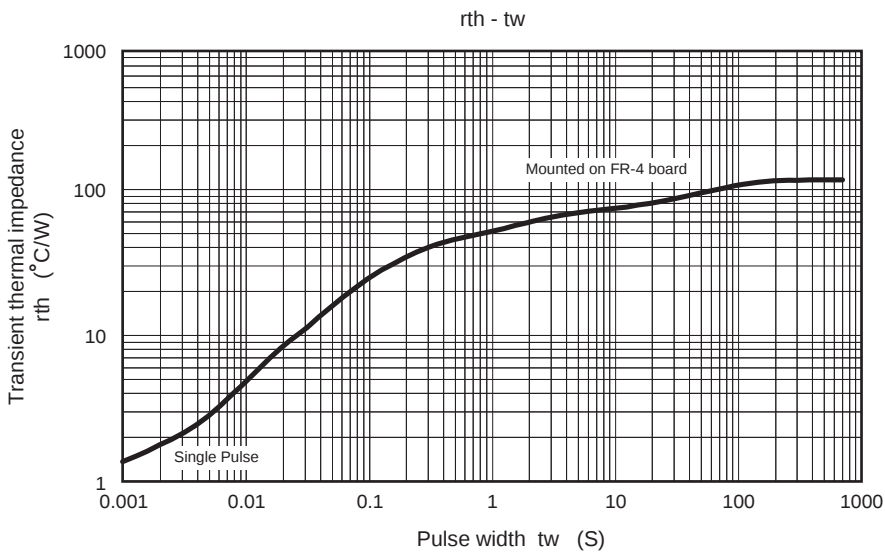
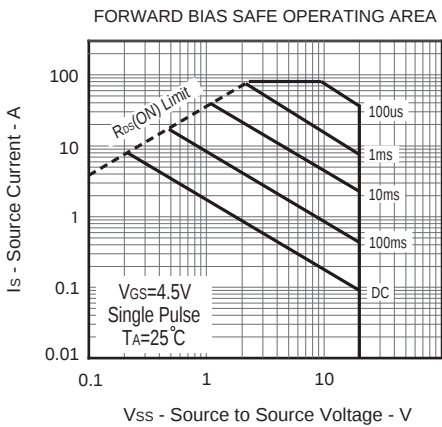
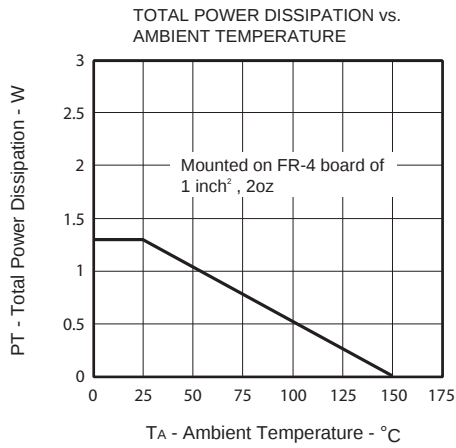
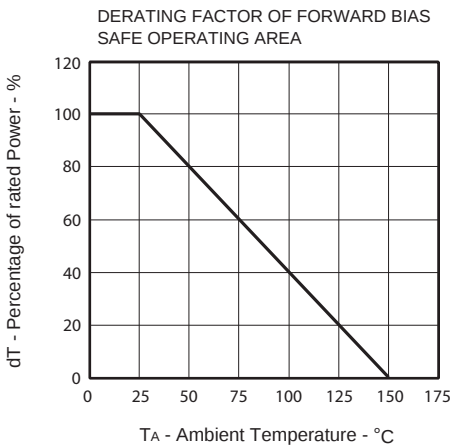
$t_d \text{ (on)}, t_r, t_d \text{ (off)}, t_f$

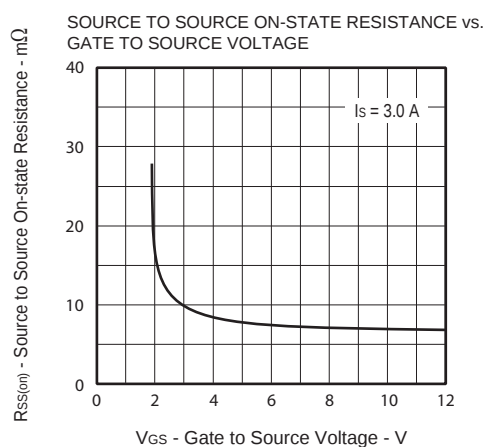
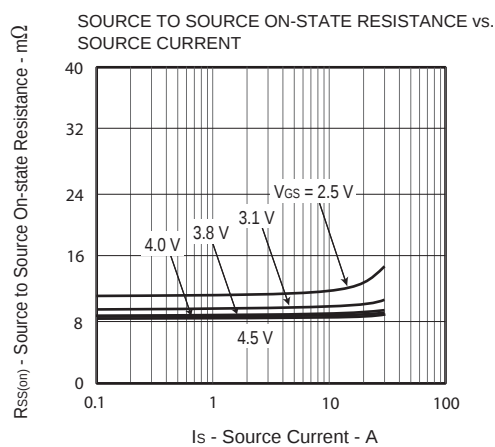
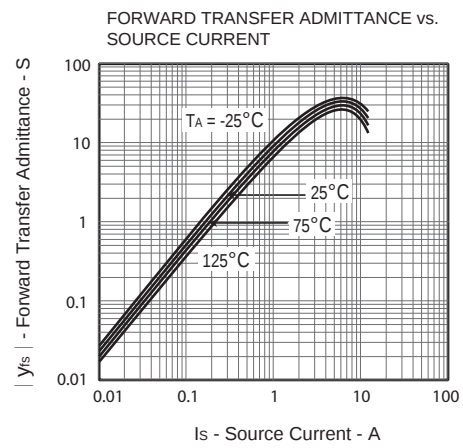
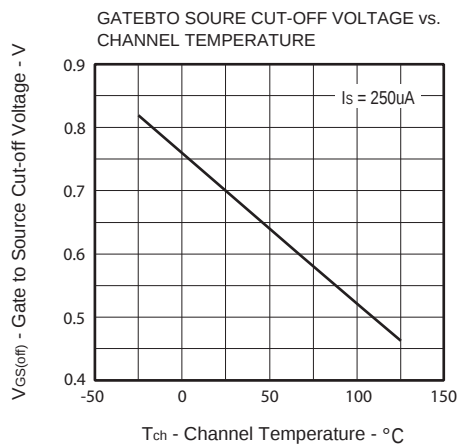
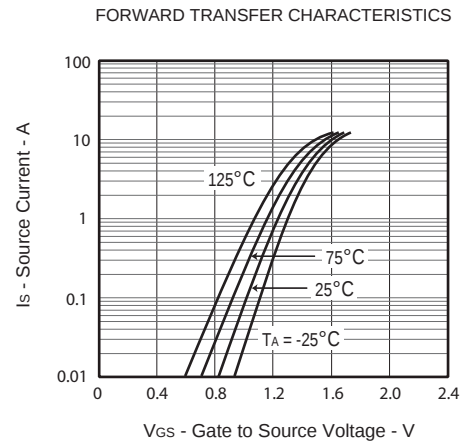
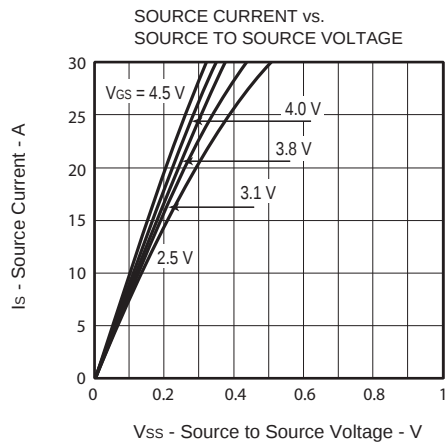


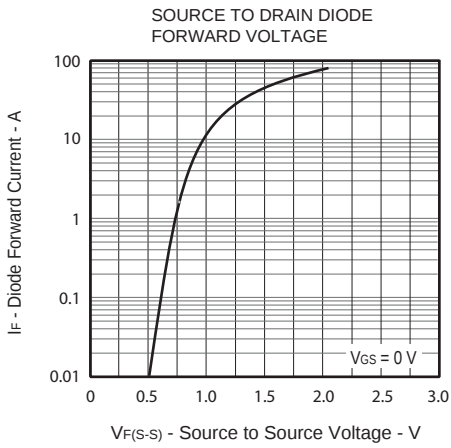
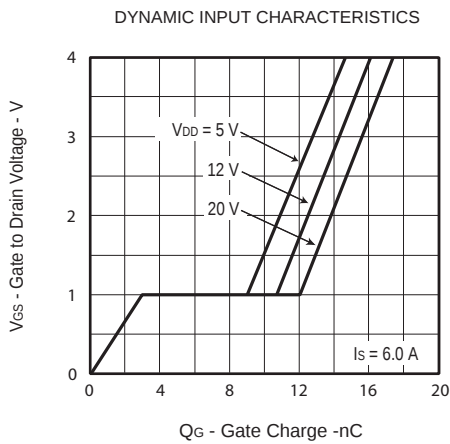
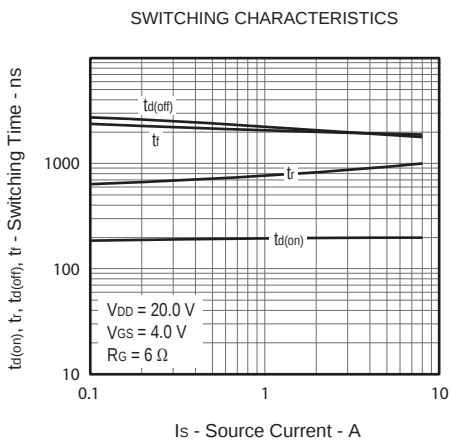
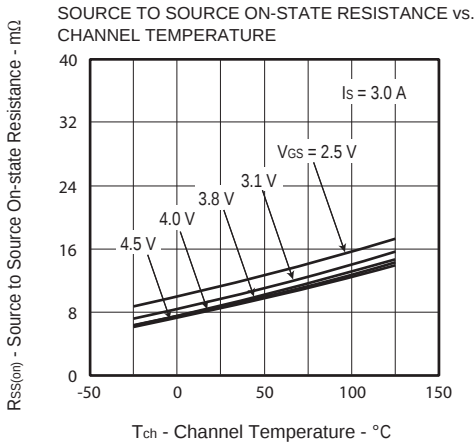
Q_g



* Note: Connect the measurement terminal reversely if you want to measure the FET2 side.







TOP MARKING DEFINITION

WLCSP

