

XG0061

N-Channel Enhancement Mode SGT MOSFET

150V(VDS) / ± 20 V(VGS) / 20A(ID)

Rev0.1

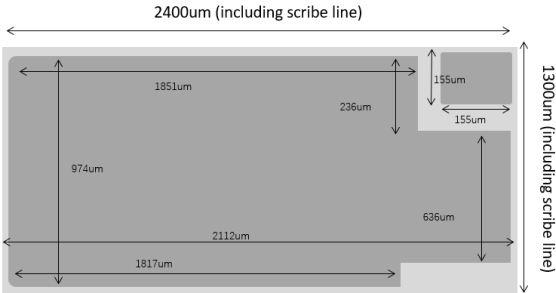
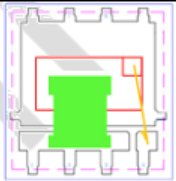


Wafer Specification

1. Order Information

Part No.	Description	Gross die / per 8,, wafer
XG0061	150V(V_{DS}) / $\pm 20V(V_{GS})$ / 20A(I_D) N-Channel Enhancement Mode SGT MOSFET	9,063

2. Physical Characteristics

	Die Size: 2400 μ m $\times$ 1300 μ m (including scribe line)
	Gate: 155 μ m $\times$ 155 μ m
	For PDFN5X6 package Suggest Bonding wire: Gate: 1.7 mil Cu Source: 60*4 mil Ribbon Dual Touch 

3. Mechanical Data

Nominal Back Metal Composition, Thickness	Ti-Ni-Ag (1kA°-3kA°-10kA°)
Nominal Front Metal Composition, Thickness	ALCu (4 μ m)
Wafer Diameter	200mm, with 010 notch
Wafer Thickness	200 μ m $\pm$ 10 μ m
Scribe Line Width	80 μ m

4. Key Electrical Characteristics of Die (at $T_J = 25^\circ\text{C}$, unless otherwise specified)

Parameter	Description	Min.	Typ.	Max.	Unit	Test Conditions
V _{(BR)DSS}	Drain-to-Source Breakdown Voltage	150	-	-	V	V _{GS} =0V, I _D =250μA
I _{D(Device Ref)}	Continuous Drain Current	-	-	20	A	T _J =25 °C
R _{DS(on)} (FT)	Static Drain-to-Source On-Resistance	-	48	57	mΩ	V _{GS} =10V, I _D =20A
V _{GS(th)}	Gate Threshold Voltage	2.2	3.2	4.2	V	V _{DS} =V _{GS} , I _D =250μA
I _{DSS}	Drain-to-Source Leakage Current	-	-	1	μA	V _{DS} =150V, V _{GS} =0V
I _{GSS}	Gate-to-Source Leakage Current	-	-	±100	nA	V _{GS} =±20V, V _{DS} =0V
E _{AS}	Single Pulsed Avalanche Energy	-	-	33	mJ	L=0.5mH, V _{DD} =75V, V _G =10V
R _g	Gate Poly Resistance	-	1.2	-	Ω	V _{DS} =0V, V _{GS} =0, f=1MHZ
C _{iss}	Input Capacitance	-	760	-	pF	V _{DS} =75V, V _{GS} =0, f=1MHZ
C _{oss}	Output Capacitance	-	80	-	pF	
C _{rss}	Reverse Transfer Capacitance	-	12	-	pF	
T _J , T _{STG}	Operating and Storage Temperature	-55°C to 175°C Max				