

			XS-M-021
	S2XM1900N600L		22-A2-08
	VDMOS		1/4

1


1.1

S2XM1900N600L N 600V VDMOS LED

1.2

600V, 2A N Channel
100%

2

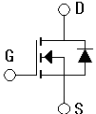
	()		1.9mm× 1.9mm	
			74.8mil × 74.8mil	
			150	
	/		4354	
	μm		260± 20	
	μm		60	
			PI	
	(μm ²)		150× 150	
			1260× 1140	
			(μm)	4 ± 0.4
				42μm× 1 42μm× 2

3

()

3.1

T_{amb}= 25

	V _{DS}	600	V	<p>T0-252 2N60</p> 
	V _{GS}	± 30	V	
注1	I _D	2	A	
	I _{DM}	5	A	
注2	E _{AS}	45	mJ	
	T _J	-55 150		
	T _{stg}	-55 150		

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	P_D	25	W	
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1

2 $L=10\text{mH}, V_{DD}=100\text{V}, R_g$, $T_f=25$

3.2

$T_{amb}=25$

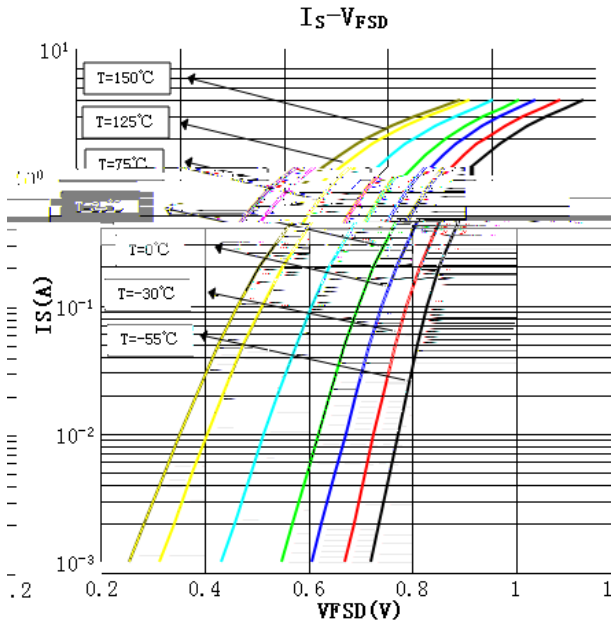
	BV_{DSS}	$V_{GS}=0V$ I_D	600	635	-	V
	V_{TH}	$V_{GS}=V_{DS}$ I_D	2	3.3	4	V
	I_{DSS}	$V_{DS}=600V$ $V_{GS}=0V$	-	-	1	
	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=1.0A$	-	3.1	3.7	
	I_{GSS}	$V_{GS}=\pm 30V$ $V_{DS}=0V$	-	-	± 100	nA
	V_{FSD}	$I_S=2A$ $V_{GS}=0V$	-	-	1.4	V
	g_{fs}	$V_{DS}=15V, I_D=1A, dI_D=0.1A$	0.5	-	-	S
	R_g	$V_{DS}=0V, V_{GS}=0V, f=1.0\text{MHz}$	-	3.1	-	
	C_{iss}	$V_{DS}=25V, V_{GS}=0V, f=1.0\text{MHz}$	-	304.6	-	pF
	C_{oss}		-	29.5	-	
	C_{rss}		-	2.0	-	
	Q_g	$V_{DS}=480V, V_{GS}=10V, I_D=2A$	-	7.7	-	nC
-	Q_{gs}		-	1.4	-	
-	Q_{gd}		-	3.6	-	

3.3

$T_{amb}=25$

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●

A
B

15 30 15% 60%
15 30 15% 30%

●

●

●

●

ESD

CO₂,

ESD