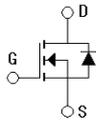


			XS-M-014
	S2XM3319N060L		23-A2-06
	VDMOS		2/4

3 ()

3.1

$T_{amb} = 25$

				TO-220 60N06 
	V_{DS}	60	V	
	V_{GS}	± 20	V	
1	I_D	60	A	
2	I_{DM}	180	A	
3	E_{AS}	3240	mJ	
4	T_J	150		
	T_{stg}	-55 150		
	P_{tot}	2	W	

1

2

3 $L=64mH, V_{00}=100V, R_g=25, T_J=25$

4 $\frac{dP_{tot}}{dT_J} < \frac{1}{R_{th(j-a)}}$

3.2

$T_{amb} = 25$

	BV_{DSS}	$V_{GS}=0V, I_D=250\mu A$	60	-	-	V
	V_{TH}	$V_{GS}=V_{DS}, I_D=250\mu A$	2	-	4	V
	I_{DSS}	$V_{DS}=60V, V_{GS}=0V$	-	-	1	μA
	$R_{DS(on)}$	$V_{GS}=10V, I_D=30A$	-	-	23	m
	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	± 100	nA
	V_{FSD}	$I_S=60A, V_{GS}=0V$	-	-	1.4	V
	Q_g	$V_{DD}=30V, V_{GS}=10V, I_D=50A$		23.4		nC
-	Q_{gs}			4.2		
-	Q_{gd}			9.4		
	C_{iSS}	$V_{DS}=25V, V_{GS}=0V, f=1.0MHz$		1240		pF
	C_{OSS}			500		
-	C_{RSS}			51		
	R_g	$V_{GS}=0V, V_{DS}=0V, f=1.0MHz$		1.4		

$t_p = 300\mu s$

2%

S2XM3319N060L

