新顺
XINSUN

# S2XM2500N650L

| | | | | |
|---|---|---|---|---|
| | $P_{tot}$ | 2 | W | |

1

2 L=10mH,$V_{DD}$=100V,$R_g$ , $T_j$=25

## 3.2

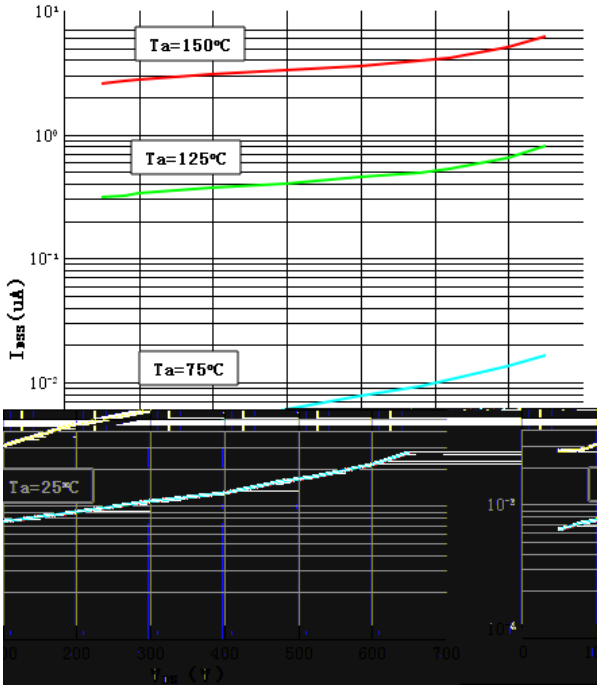
$T_{amb}$= 25

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| | $BV_{DSS}$ | $V_{GS}$=0V $I_D$ | 650 | 690 | - | V |
| | $V_{TH}$ | $V_{GS}$=$V_{DS}$ $I_D$ | 2 | 3 | 4 | V |
| | $I_{DSS}$ | $V_{DS}$=650V $V_{GS}$=0V | - | - | 1 | |
| | $R_{DS(on)}$ | $V_{GS}$=10V $I_D$=2.0A | - | 2.0 | 2.6 | |
| | $I_{GSS}$ | $V_{GS}$=±30V $V_{DS}$=0V | - | - | ±100 | nA |
| | $V_{FSD}$ | $I_S$=4.0A $V_{GS}$=0V | - | - | 1.2 | V |
| | $g_{fs}$ | $V_{DS}$=15V,$I_D$=2A,d$I_D$=0.2A | 1 | - | - | S |
| | $R_g$ | $V_{DS}$=0V,$V_{GS}$=0V,f=1.0MHz | - | 2.76 | - | |
| | $C_{iss}$ | $V_{DS}$=25V,$V_{GS}$=0V,f=1.0MHz | - | 624 | - | pF |
| | $C_{oss}$ | | - | 51.1 | - | |
| | $C_{rss}$ | | - | 2.1 | - | |
| | $Q_g$ | $V_{DS}$=520V,$V_{GS}$=10V,$I_D$=4A | - | 11.3 | - | nC |
| - | $Q_{gs}$ | | - | 2.8 | - | |
| - | $Q_{gd}$ | | - | 4.2 | - | |

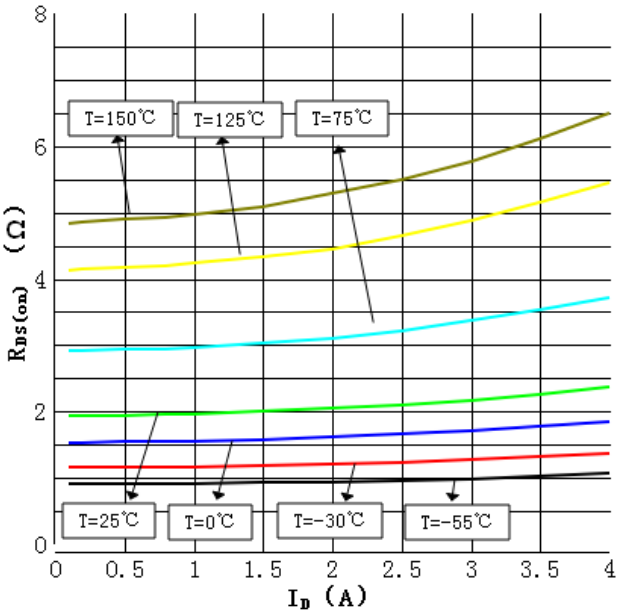
## 3.2

$T_{amb}$= 25

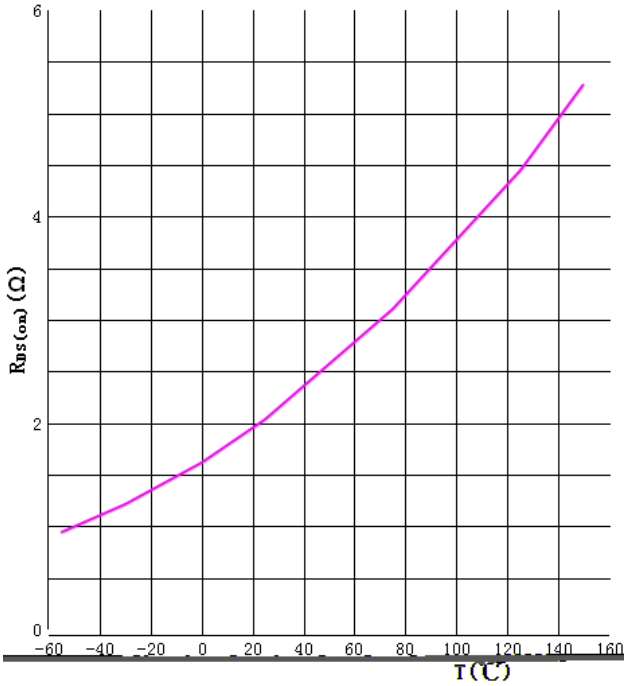
$I_{DSS}$-$V_{DS}$




$R_{DS(on)}$-$I_D$ ($V_{GS}$= 10V)




$R_{DS(on)}$-T ($V_{GS}$=10V, $I_D$=2A)




$V_{GS(th)}$-T ($V_{DS}$=$V_{GS}$, $I_D$=250uA)