



N-Channel Enhancement Mode Field Effect Transistor

Product Summary

| | |
|-----------------------------------|---------|
| V_{DS} | 60V |
| I_D | 3.0A |
| $R_{DS(ON)}$ (at $V_{GS}=10V$) | 100mohm |
| $R_{DS(ON)}$ (at $V_{GS}=4.5V$) | 120mohm |
| 100% V_{DS} Tested | |

General Description

Trench Power MV MOSFET technology
Excellent package for heat dissipation
High density cell design for low $R_{DS(ON)}$
Moisture Sensitivity Level 1
Epoxy Meets UL 94 V-0 Flammability Rating
Halogen Free

Applications

DC-DC Converters
Power management functions

Absolute Maximum Ratings ($T_A=25$ unless otherwise noted)

| Parameter | Symbol | Limit | Unit |
|-----------|--------|-------|------|
|-----------|--------|-------|------|



YJL03N06A

RECOMMEND
YJL03N06C
FOR NEW DESIGN



Typical Performance Characteristics

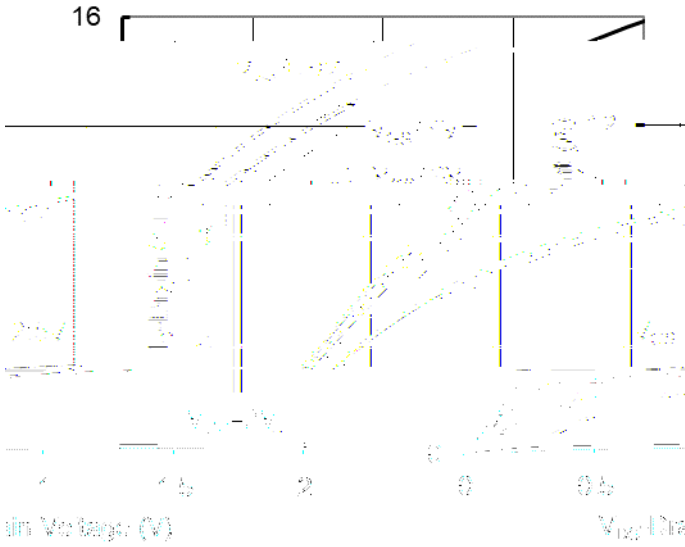


Figure1. Output Characteristics

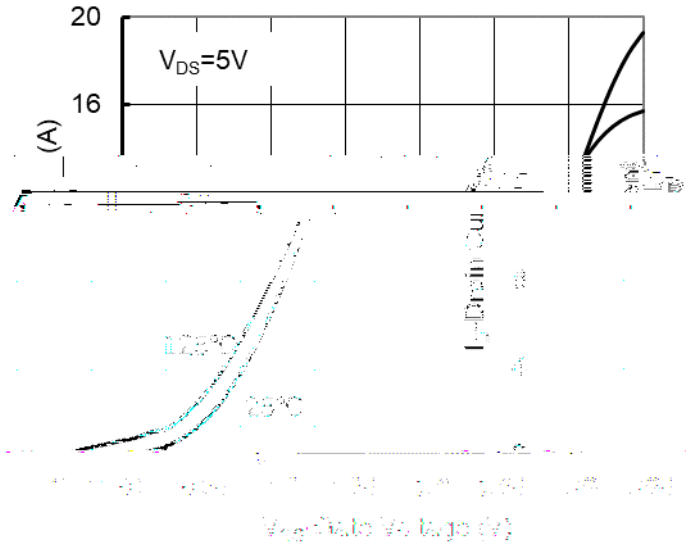


Figure2. Transfer Characteristics

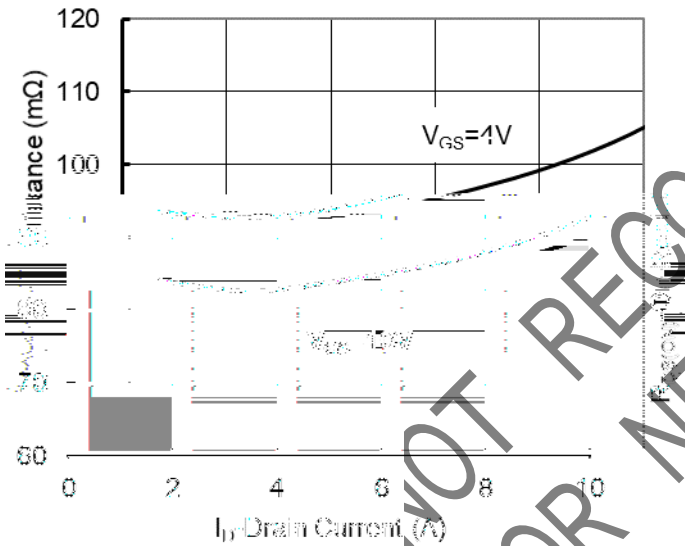


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

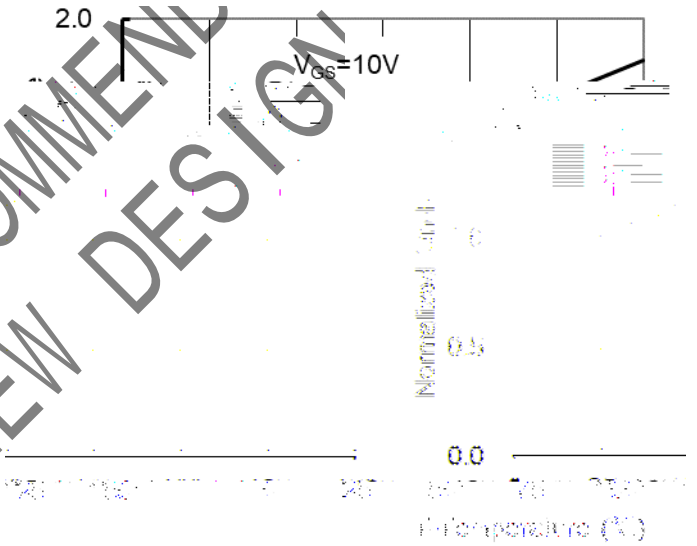


Figure 4: On-Resistance vs. Junction Temperature

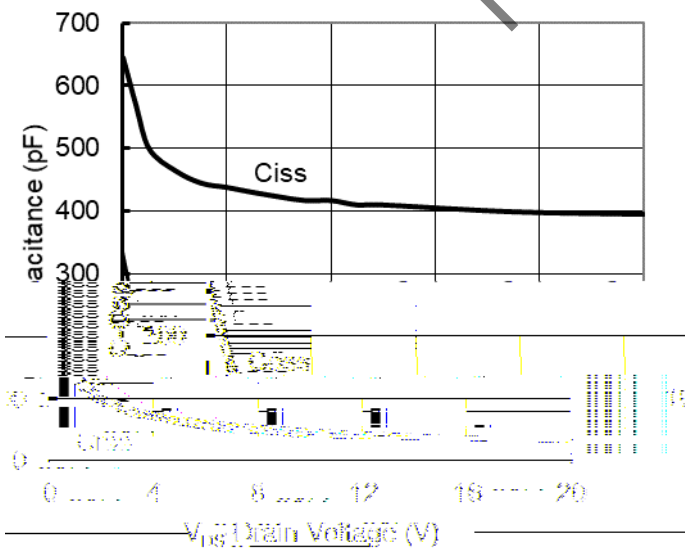


Figure5. Capacitance Characteristics

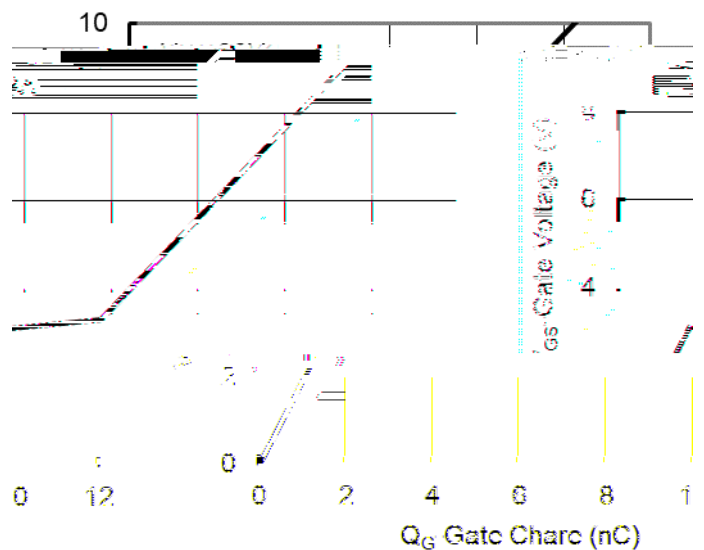


Figure6. Gate Charge

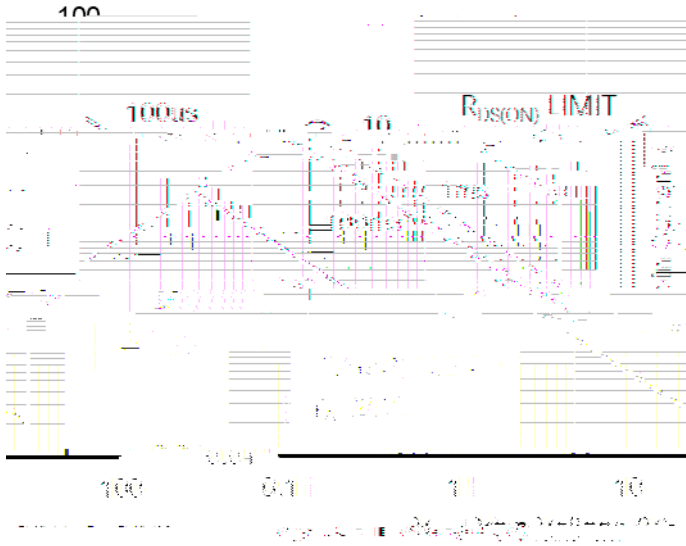


Figure7. Safe Operation Area

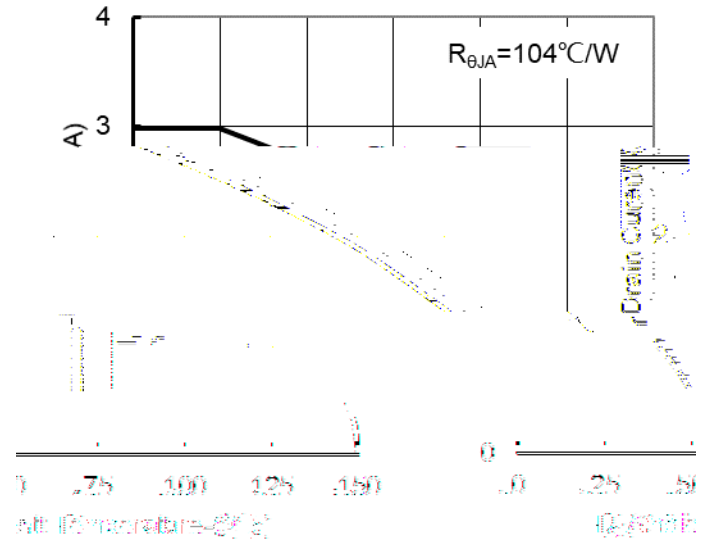


Figure8. Maximum Continuous Drain Cu5.93 ret89



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.

NOT RECOMMENDED
FOR NEW DESIGN