



P-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	-15V
I_D	-5.6A
$R_{DS(ON)}$ (at $V_{GS}=-4.5V$)	34 mohm
$R_{DS(ON)}$ (at $V_{GS}=-2.5V$)	44 mohm
$R_{DS(ON)}$ (at $V_{GS}=-1.8V$)	62 mohm

General Description

High Density Cell Design for Low $R_{DS(ON)}$
High Speed switching
Moisture Sensitivity Level 1
Epoxy Meets UL 94 V-0 Flammability Rating
Halogen Free

Applications

Battery protection
Load switch
Power management

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Drain-source Voltage	V_{DS}	-15	V
Gate-source Voltage	V_{GS}	± 10	V
Drain Current $T_A=25^\circ\text{C}$	I_D	-5	A



Electrical Characteristics ($T_J=25$

Typical Performance Characteristics

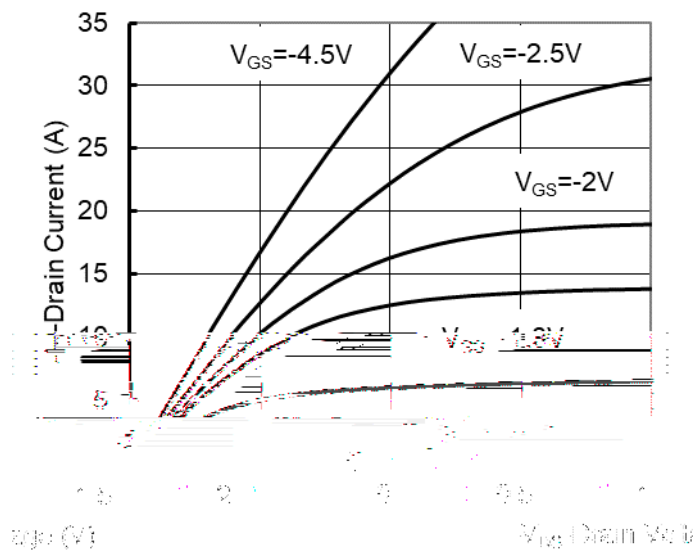


Figure1. Output Characteristics

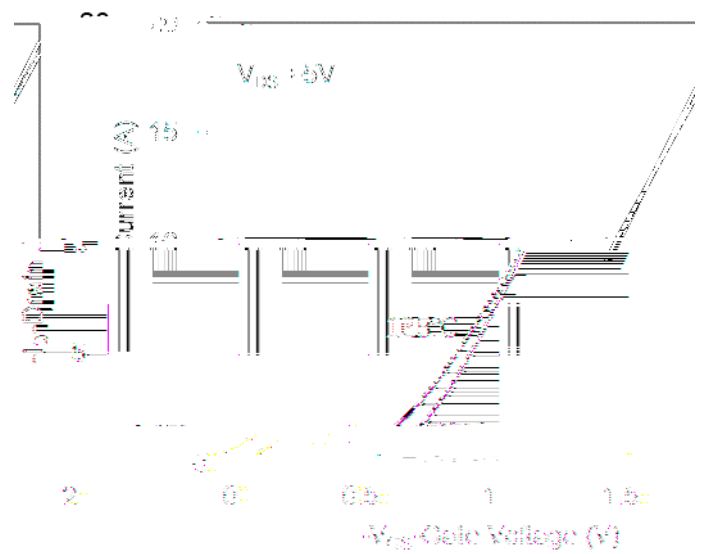


Figure2. Transfer Characteristics

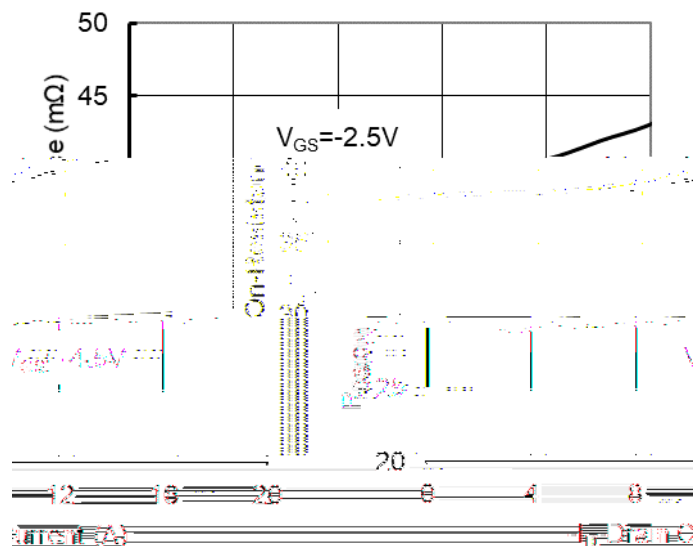


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

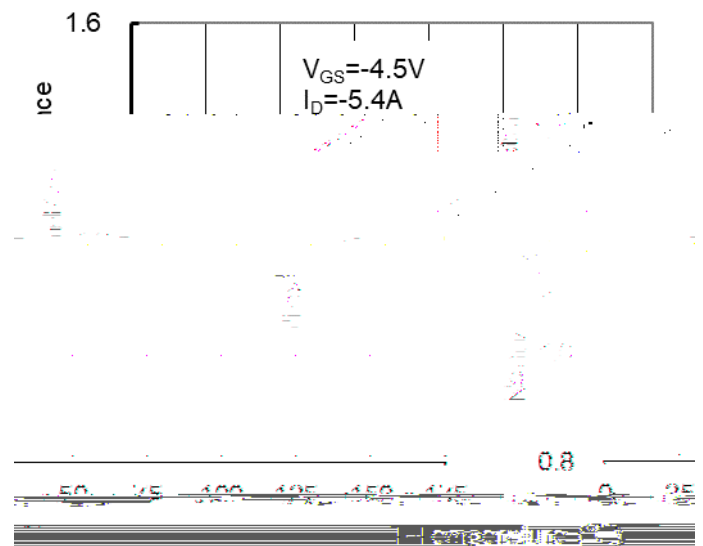


Figure 4: On-Resistance vs. Junction Temperature

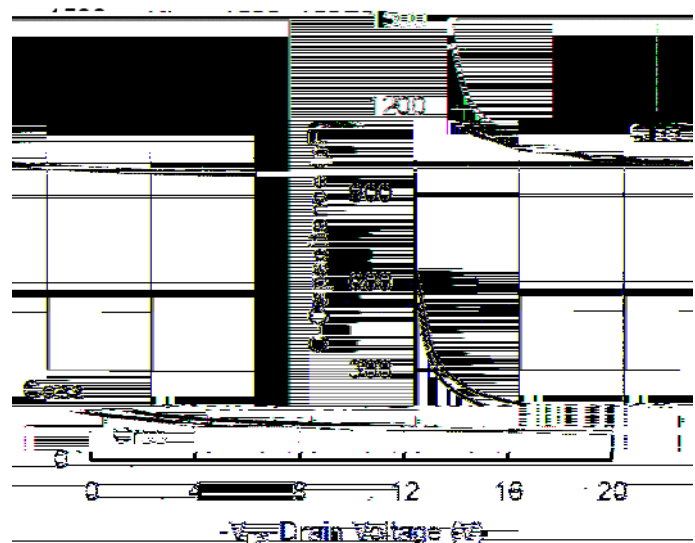


Figure5. Capacitance Characteristics

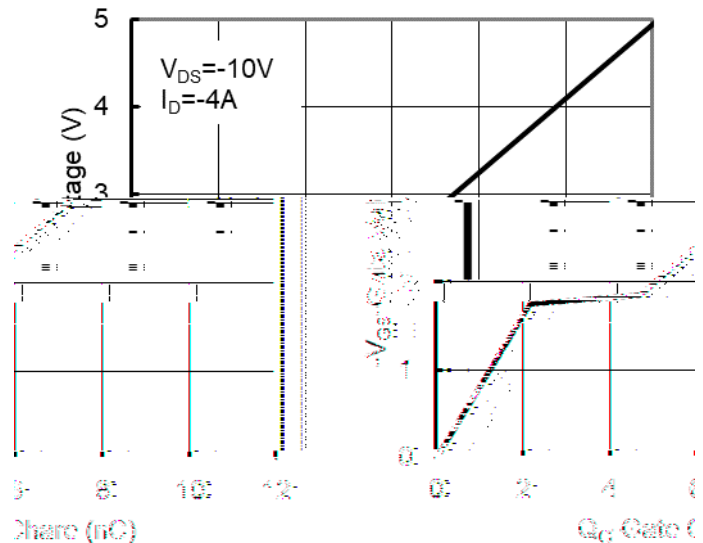


Figure6. Gate Charge

YJL2305A



SOT-23 Package Information



UNIT mm



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)