



BSS84W

P-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	-60 V
I_D	-0.17 A
$R_{DS(ON)}$ (at $V_{GS}=-10V$)	< 8 ohm
$R_{DS(ON)}$ (at $V_{GS}=-4.5V$)	< 9.9 ohm

General Description

Trench Power LV MOSFET technology
Low $R_{DS(ON)}$
Low Gate Charge
Moisture Sensitivity Level 1
Epoxy Meets UL 94 V-0 Flammability Rating
Halogen Free

Applications

Video monitor
Power management

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

Parameter	Symbol	Maximum	Unit	
Drain-source Voltage	V_{DS}	-60	V	
Gate-source Voltage	V_{GS}	± 20	V	
Drain Current	I_D	$T_A=25^\circ\text{C}$ @ Steady State	-0.17	A
		$T_A=70^\circ\text{C}$ @ Steady State	-0.14	
Pulsed Drain Current ^A	I_{DM}	-0.68	A	
Total Power Dissipation @ $T_A=25^\circ\text{C}$	P_D	0.15	W	
Thermal Resistance Junction-to-Ambient ^B	R_{JA}	833	$^\circ\text{C}/\text{W}$	
Junction and Storage Temperature Range	T_J, T_{STG}	-55~+150	$^\circ\text{C}$	



Typical Performance Characteristics

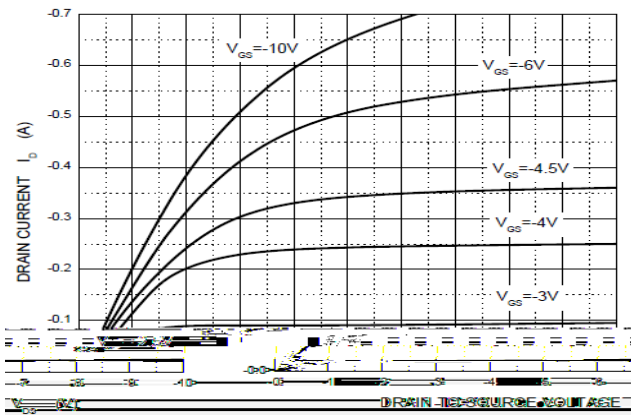


Figure1. Output Characteristics

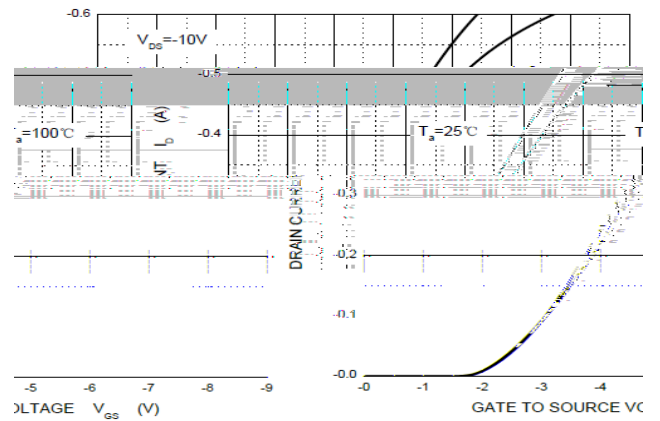


Figure2. Transfer Characteristics

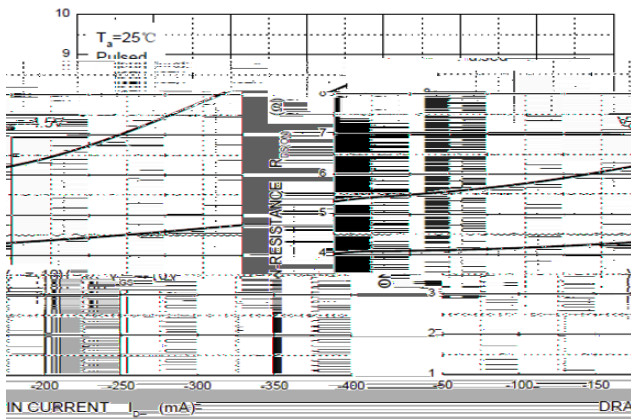


Figure3. Drain-Source on Resistance

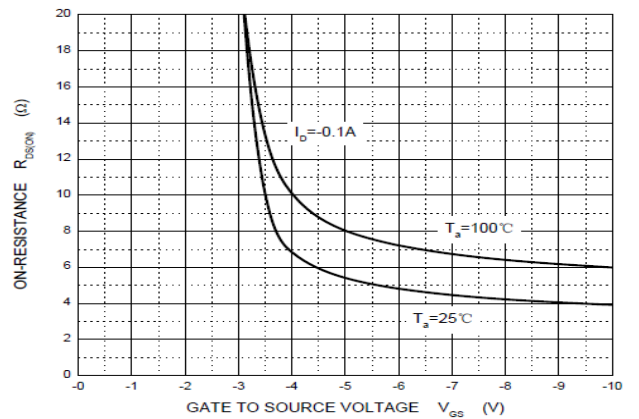


Figure4. Drain-Source on Resistance

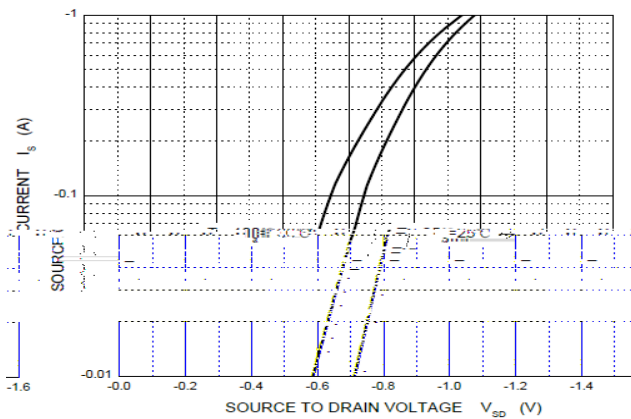


Figure5. Diode Forward Voltage vs. current

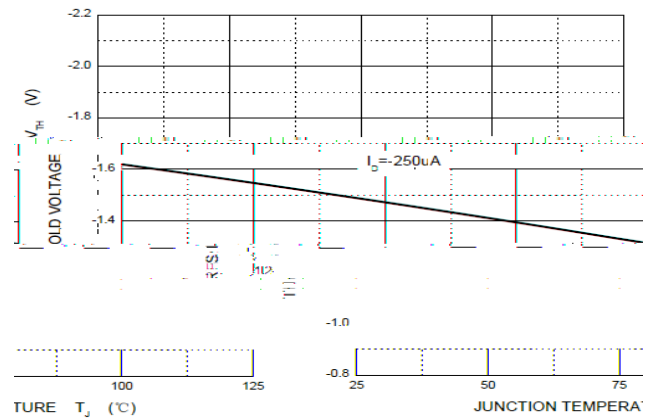


Figure6. Gate Threshold vs. Junction Temperature



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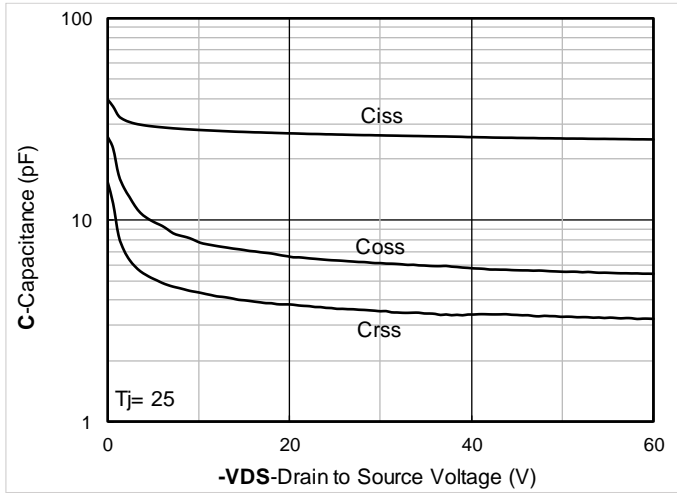


Figure7. Capacitance Characteristics

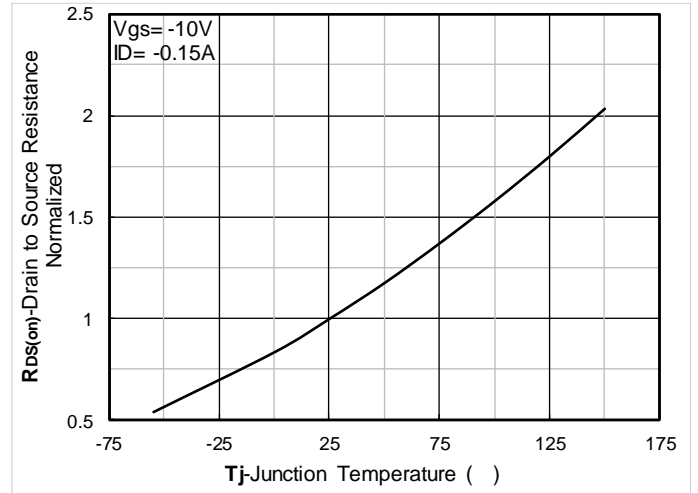


Figure8. Normalized On-Resistance

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