

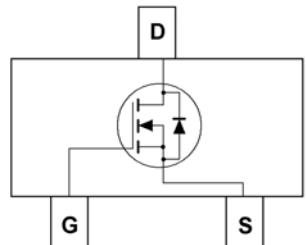
N-Channel Enhancement Mode MOSFET

Feature

- 20V/3.0A, R_{DS(ON)} = 80m Ω (MAX) @ V_{GS} = 4.5V.
R_{DS(ON)} = 90m Ω (MAX) @ V_{GS} = 2.5V.
- Super High dense cell design for extremely low R_{DS(ON)}.
- Reliable and Rugged.
- SOT-23 for Surface Mount Package.



SOT-23



Applications

- Power Management
Portable Equipment and Battery Powered Systems.

Absolute Maximum Ratings

TA=25°C Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V _{DS}	20	V
Gate-Source Voltage	V _{GS}	±8	V
Drain Current-Continuous	I _D	3.0	A

Electrical Characteristics

TA=25°C Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	V _{GS} =0V, I _D =250μA	20	-	-	V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =12V, V _{GS} =0V	-	-	1	μA
Gate Body Leakage Current, Forward	IGSSF	V _{GS} =8V, V _{DS} =0V	-	-	100	nA
Gate Body Leakage Current, Reverse	IGSSR	V _{GS} =-8V, V _{DS} =0V	-	-	-100	nA
On Characteristics						
Gate Threshold Voltage	V _{GS(th)}	V _{GS} = V _{DS} , I _D =250μA	0.4	-	1.3	V
Static Drain-source On-Resistance	R _{DS(ON)}	V _{GS} = 4.5V, I _D = 3.6A	-	70	80	mΩ
		V _{GS} = 2.5V, I _D = 3.1A	-	75	90	mΩ
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	V _{SD}	V _{GS} = 0V, I _S =0.94A			1.2	V

Typical Characteristics

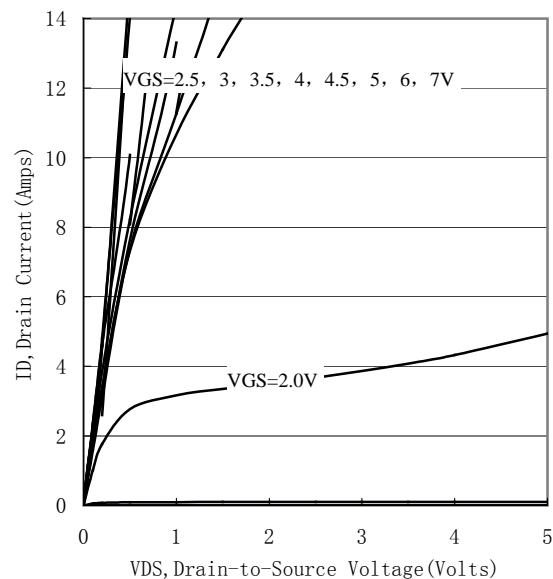


Figure 1. Output Characteristics

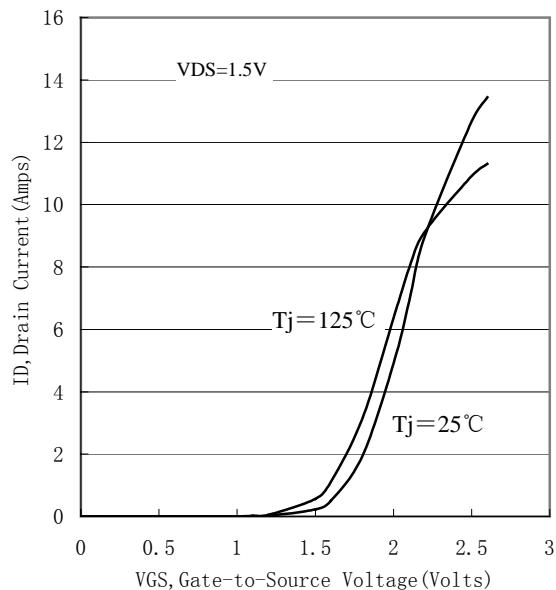


Figure 2. Transfer Characteristics

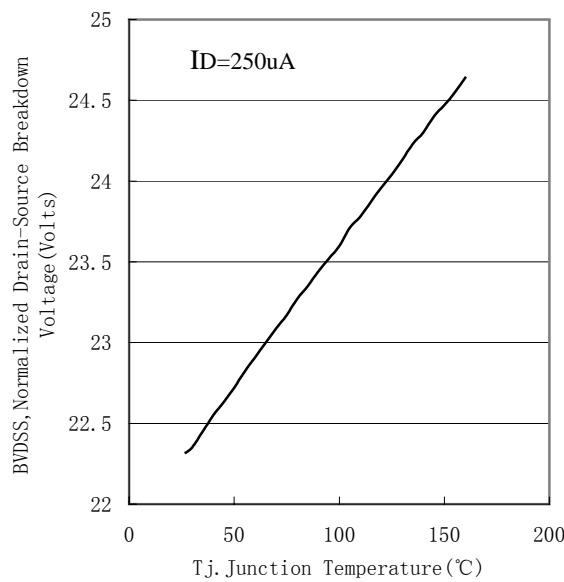


Figure 3. Breakdown Voltage Variation with Temperature

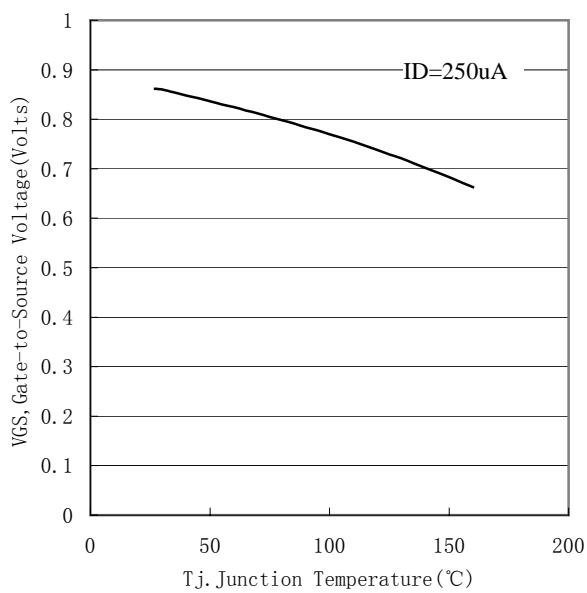


Figure 4. Gate Threshold Variation with Temperature

Typical Characteristics

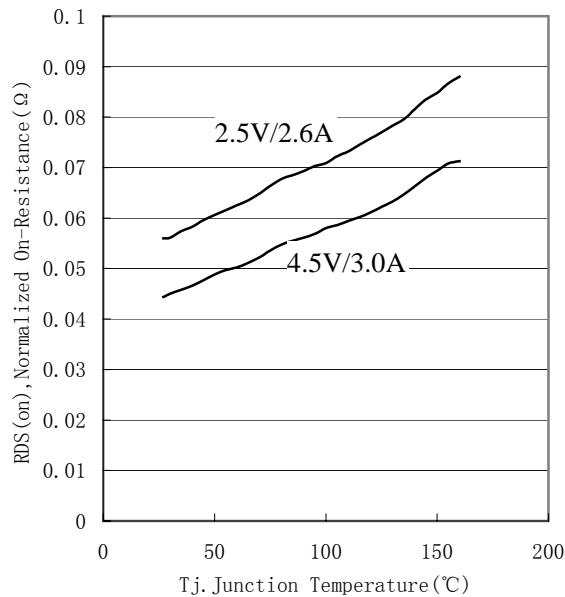


Figure 5. On-Resistance Variation with Temperature

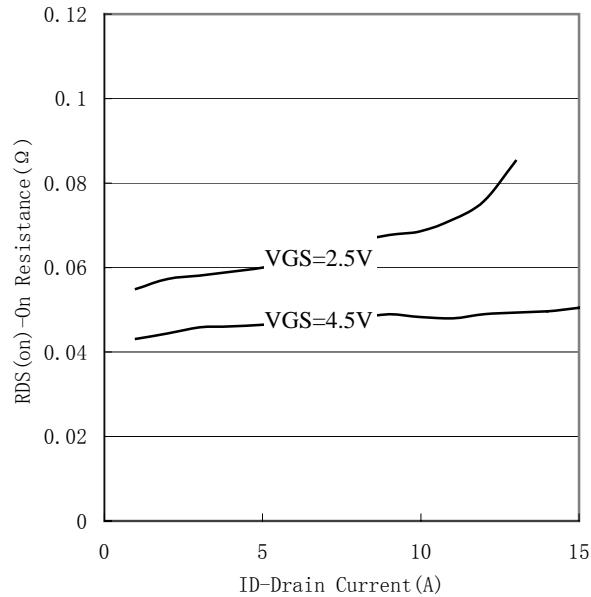


Figure 6. On-Resistance vs. Drain Current

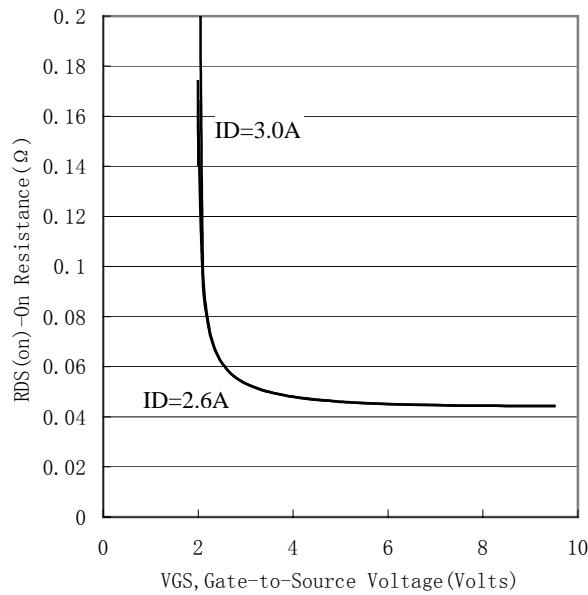


Figure 7. On-Resistance vs. Gate-to-Source Voltage

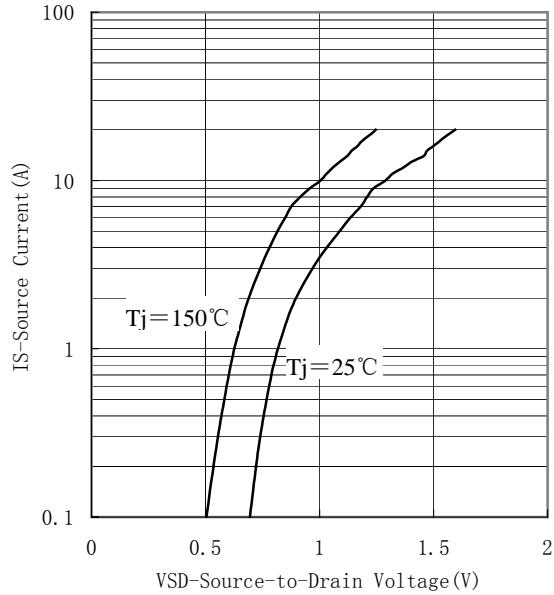
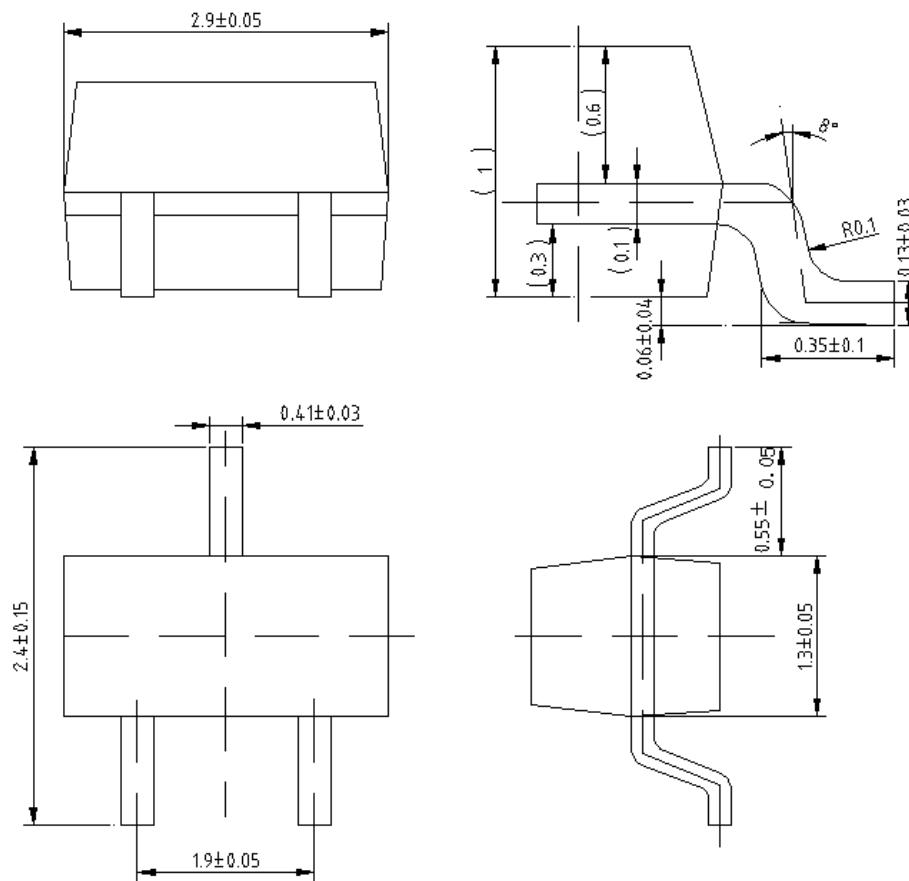


Figure 8. Source-Drain Diode Forward Voltage

Package Outline Dimensions (UNIT: mm)

SOT-23



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