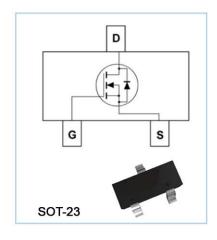




Feature

- 18V/3.6A, $R_{DS(ON)} = 80 \text{m} \Omega \text{ (MAX)}$ @ $V_{GS} = 4.5 \text{ V}$. $R_{DS(ON)} = 90 \text{m} \Omega \text{ (MAX)}$ @ $V_{GS} = 2.5 \text{ V}$.
- Super High dense cell design for extremely low RDS(ON).
- Reliable and Rugged.
- SOT-23 for Surface Mount Package.



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}	18	v	
Gate-Source Voltage	V _{GS}	±8	V	
Drain Current-Continuous	I _D	3.6	A	

Electrical Characteristics

Ta=25°C Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Тур.	Max	Units		
Off Characteristics								
Drain to Source Breakdown Voltage	BVDSS	VGS=0V, ID=250μA	18	ne ne	-	V		
Zero-Gate Voltage Drain Current	IDSS	VDS=12V, VGS=0V	-	25	1	μА		
Gate Body Leakage Current, Forward	IGSSF	VGS=8V, VDS=0V	-	-	100	nA		
Gate Body Leakage Current, Reverse	IGSSR	VGS=-8V, VDS=0V	-	-	-100	nA		
On Characteristics								
Gate Threshold Voltage	VGS(th)	VGS= VDS, ID=250μA	0.4	-	1.3	V		
Static Drain-source	RDS(ON)	VGS =4.5V, ID =3.6A	-	70	80	mΩ		
On-Resistance		VGS =2.5V, ID =3.1A	-	75	90	mΩ		
Drain-Source Diode Characteristics and Maximum Ratings								
Drain-Source Diode Forward Voltage	VSD	VGS =0V, IS=0.94A			1.2	V		

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Typical Characteristics

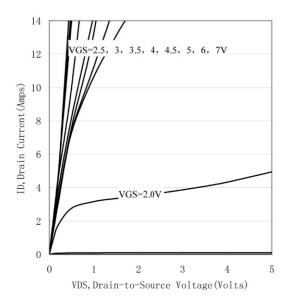


Figure 1. Output Characteristics

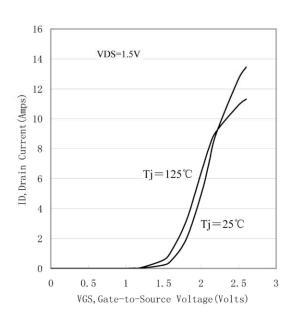


Figure 2. Transfer Characteristics

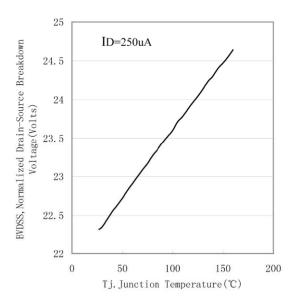


Figure 3. Breakdown Voltage Variation with Temperature

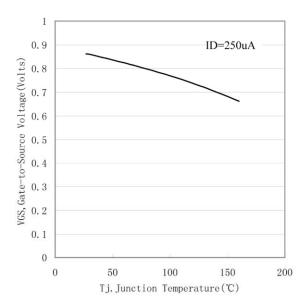


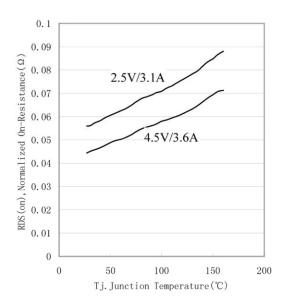
Figure 4. Gate Threshold Variation with Temperature

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Typical Characteristics



0. 12
0. 1

O. 1

O. 10

O. 00

VGS=2.5V

VGS=4.5V

O. 00

O. 02

O. 00

Figure 5. On-Resistance Variation with Temperature

Figure 6. On-Resistance vs. Drain Current

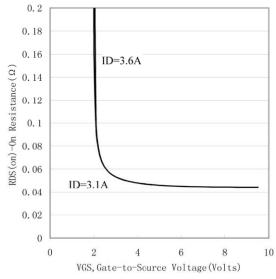


Figure 7. On-Resistance vs. Gate-to-Source Voltage

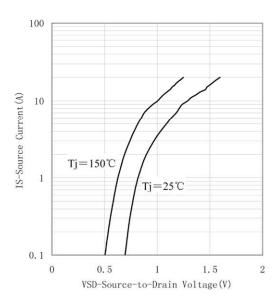


Figure 8. Source-Drain Diode Forward Voltage

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