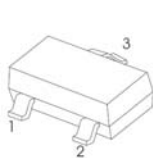
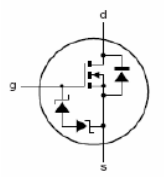
N-Channel Enhancement Mode MOSFET

Feature

- 60V/0.2A, $R_{DS(ON)}$ = 4Ω (MAX) @V_{GS} = 10V. Id = 0.5A
  $R_{DS(ON)}$ = 4Ω (MAX) @V_{GS} = 5V . Id = 0.05A
- Super High dense cell design for extremely low $R_{DS(ON)}$.
- Reliable and Rugged.
- SOT-23 for Surface Mount Package.
- ESD protected up to 2KV

SOT-23





1. GATE
2. SOURCE
3. DRAIN

Applications

- Power Management in Desktop Computer or DC/DC Converters .

Absolute Maximum Ratings

T_A=25℃ Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	±15	V
Drain Current-Continuous	I_D	0.2	A

Electrical Characteristics

T_A=25℃ Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	VGS=0V, ID=10μA	60	-	-	V
Zero-Gate Voltage Drain Current	IDSS	VDS=60V, VGS=0V	-	-	1	μA
Gate Body Leakage Current, Forward	IGSSF	VGS=15V, VDS=0V	-	-	1	μA
Gate Body Leakage Current, Reverse	IGSSR	VGS=-15V, VDS=0V	-	-	-1	μA
On Characteristics						
Gate Threshold Voltage	VGS(th)	VGS= VDS, ID=250μA	1.35	-		V
Static Drain-source On-Resistance *	RDS(ON)	VGS =10V, ID =0.5A	-	2.5	4	Ω
		VGS =5V, ID =0.05 A	-	2.5	4	Ω
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	VSD	VGS =0V, IS=0.2A			2.5	V

Notes :
*Pulse Test : Pulse Width ≤300μs, Duty Cycle ≤2%.

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Typical Characteristics

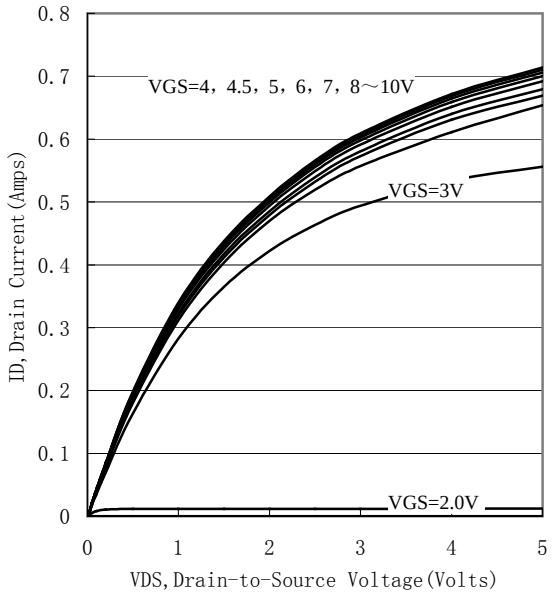

Figure 1. Output Characteristics

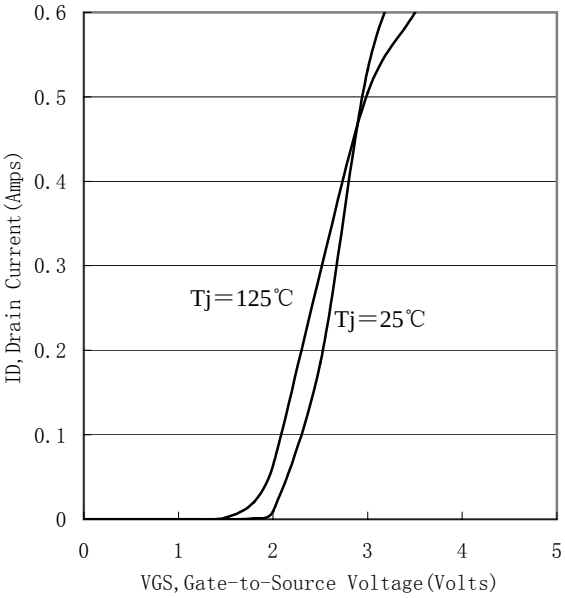

Figure 2. Transfer Characteristics

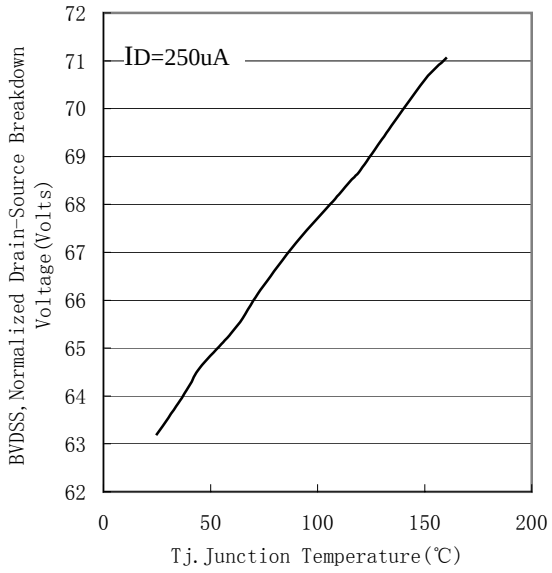

Figure 3. Breakdown Voltage Variation with Temperature

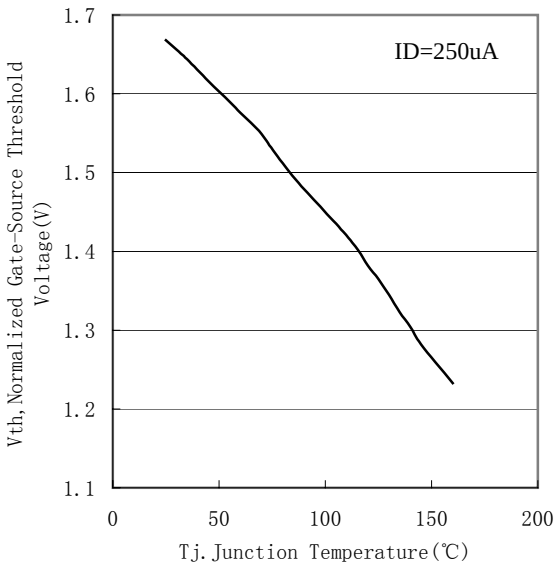

Figure 4. Gate Threshold Variation with Temperature

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Typical Characteristics

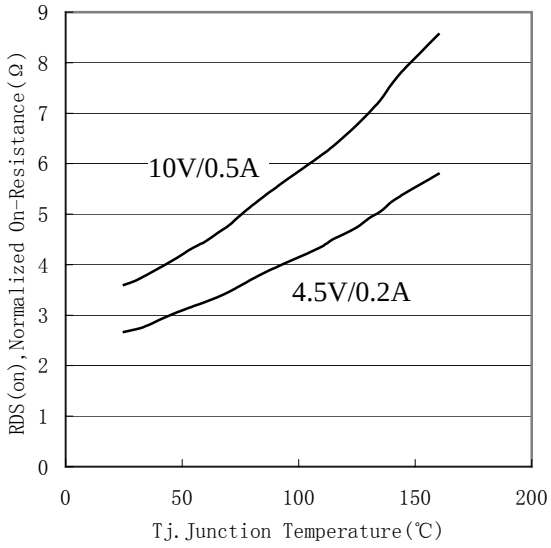

Figure 5. On-Resistance Variation with Temperature

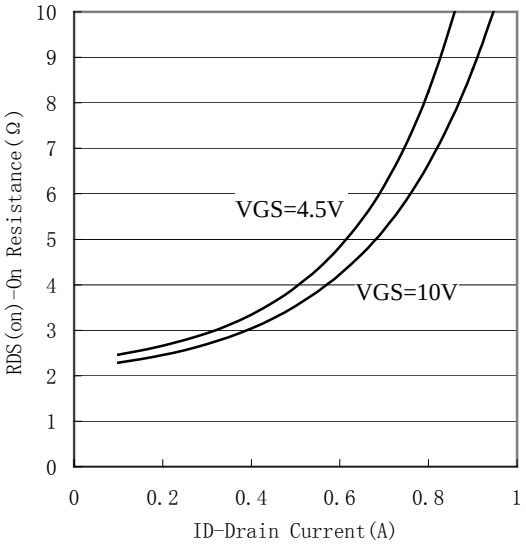

Figure 6. On-Resistance vs. Drain Current

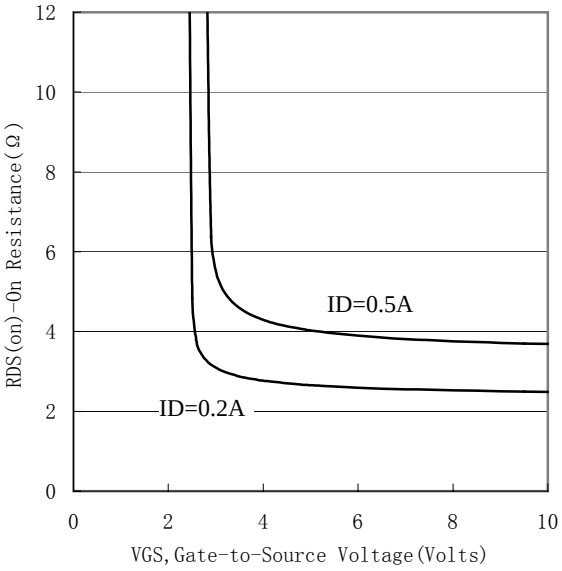

Figure 7. On-Resistance vs. Gate-to-Source Voltage

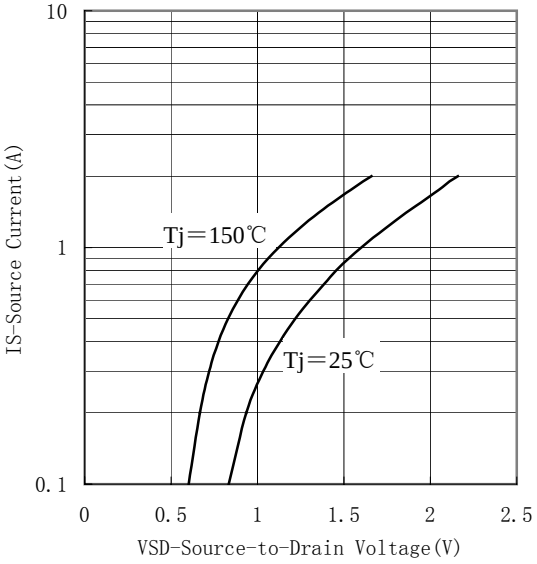

Figure 8. Source-Drain Diode Forward Voltage