FDN306P

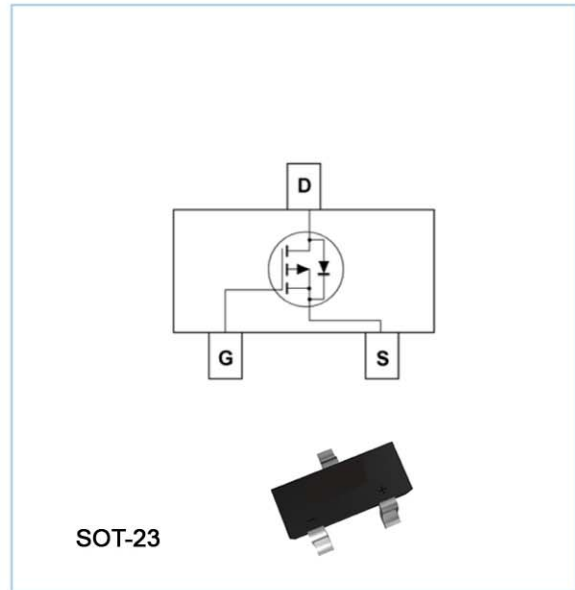## P-Channel Enhancement Mode MOSFET

Feature

- -16V/-3A,　　$R_{DS(ON)} = 160m\Omega$ (MAX)　@$V_{GS} = -4.5V$.

　　　　　　　$R_{DS(ON)} = 240m\Omega$ (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　　$T_A=25℃$　Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V_{DS}	-16	V
Gate-Source Voltage	V_{GS}	±8	V
Drain Current-Continuous	I_D	-3	A

Electrical Characteristics　　$T_A=25℃$　Unless Otherwise noted

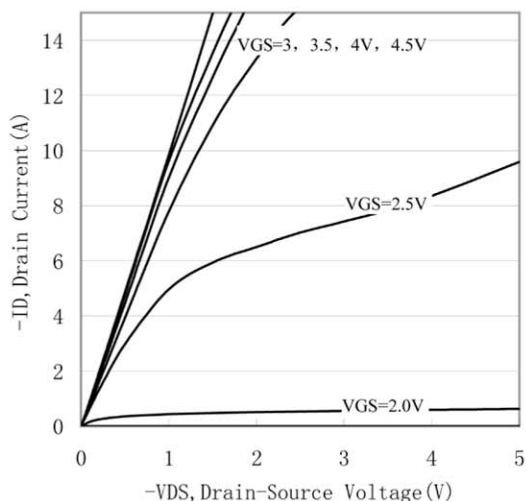| Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	VGS=0V, ID=-250μA	-16	-	-	V
Zero-Gate Voltage Drain Current	IDSS	VDS=-12V, VGS=0V	-	-	-5	μA
Gate Body Leakage Current, Forward	IGSSF	VGS=8V, VDS=0V	-	-	100	nA
Gate Body Leakage Current, Reverse	IGSSR	VGS=-8V, VDS=0V	-	-	-100	nA
On Characteristics						
Gate Threshold Voltage	VGS(th)	VGS= VDS, ID=-250μA	-0.45	-	-1.5	V
Static Drain-source	RDS(ON)	VGS =-4.5V, ID =-3.0A	-	-	160	mΩ
On-Resistance		VGS =-2.5V, ID =-2.0A	-	-	240	mΩ
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	VSD	VGS =0V, IS=-1.25A			-1.8	V

Typical Characteristics
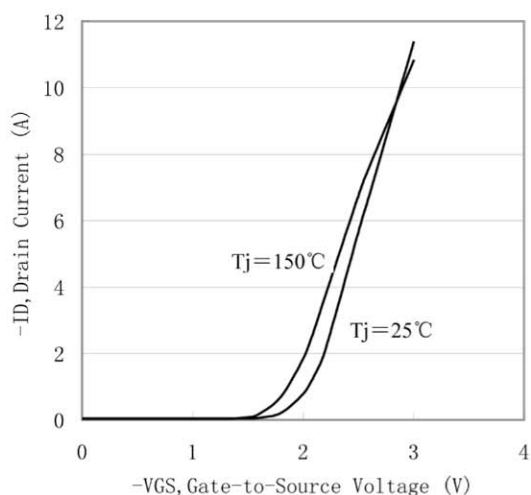

Figure 1. Output Characteristics

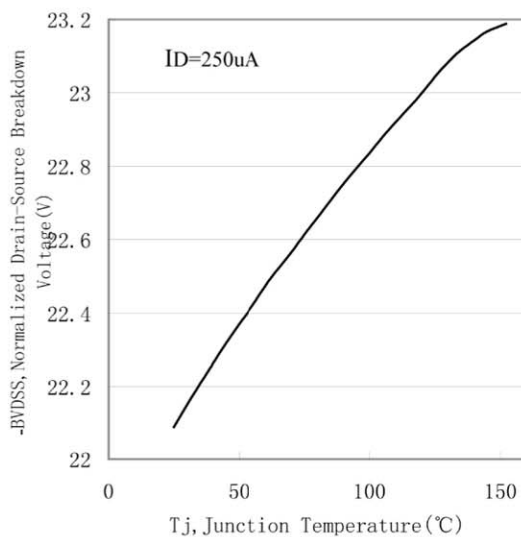**Figure 2. Transfer Characteristics**

**Figure 3. Breakdown Voltage Variation
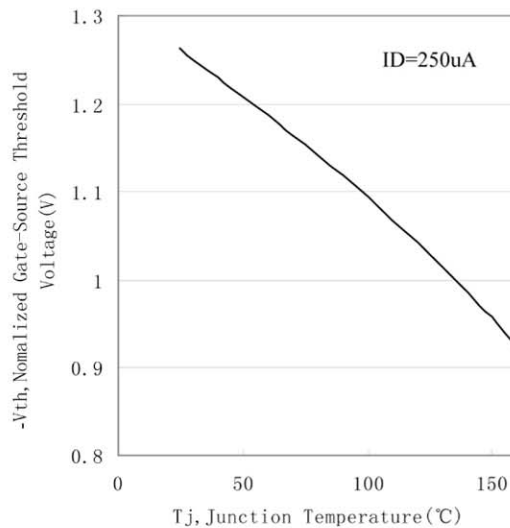with Temperature**

**Figure 4. Gate Threshold Variation
with Temperature**

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