

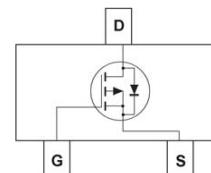
## P-Channel Enhancement Mode MOSFET

### Feature

- -30V/-4.0A, RDS(ON) = 65mΩ(MAX) @VGS = -10V.  
RDS(ON) = 80mΩ(MAX) @VGS = -4.5V.  
RDS(ON) = 120mΩ(MAX) @VGS = -2.5V.
- Super High dense cell design for extremely low RDS(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

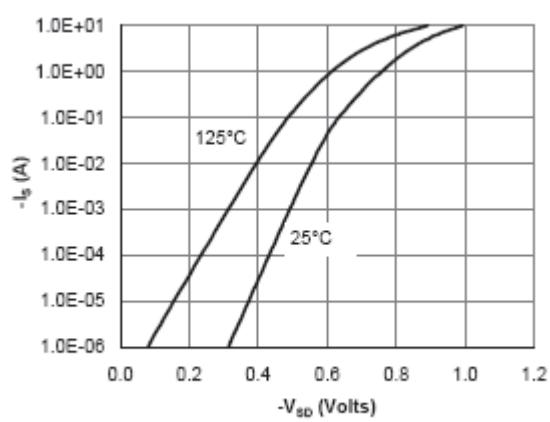
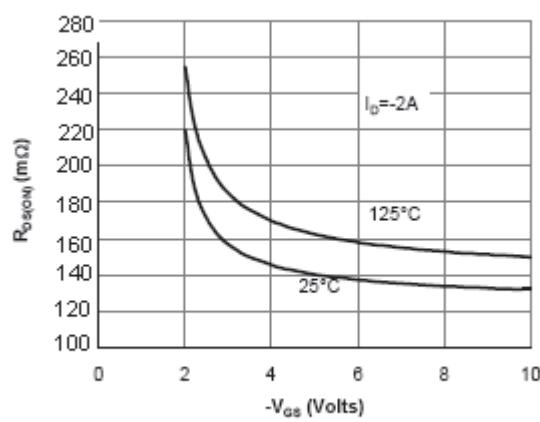
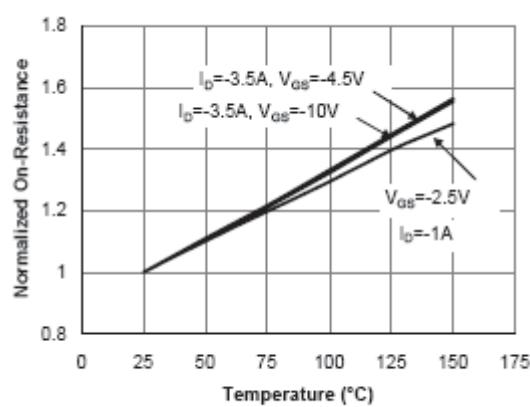
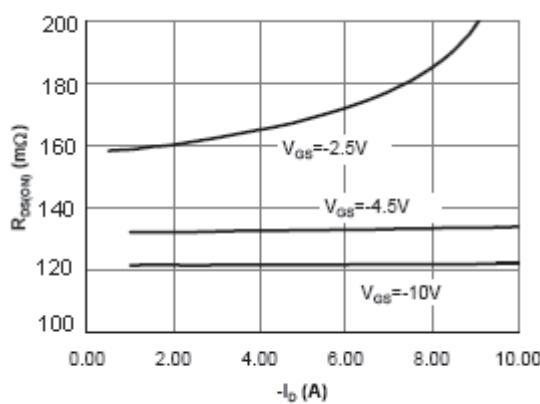
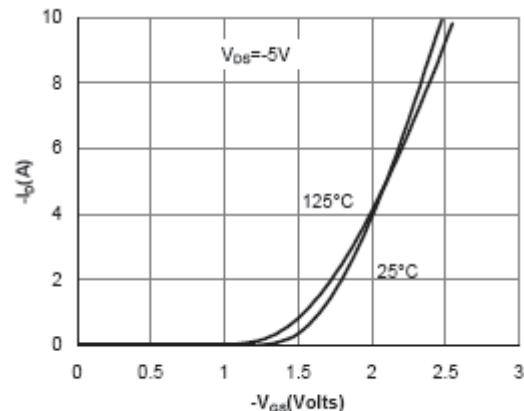
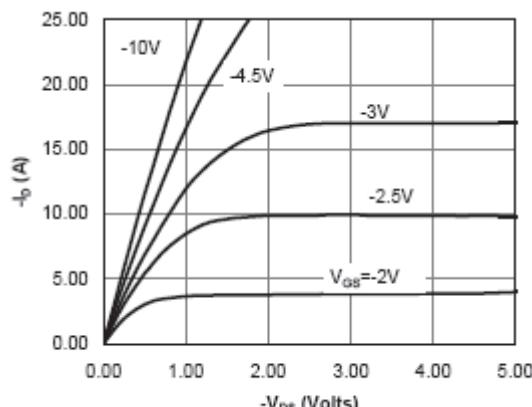
Parameter	Symbol	Limit	Units
Drain-Source Voltage	V <sub>DS</sub>	-30	V
Gate-Source Voltage	V <sub>GS</sub>	±12	V
Drain Current-Continuous	I <sub>D</sub>	-4.0	A

### Electrical Characteristics

TA=25°C Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
<b>Off Characteristics</b>						
Drain to Source Breakdown Voltage	BVDSS	V <sub>GS</sub> =0V, ID=-250μA	-30	-	-	V
Zero-Gate Voltage Drain Current	IDSS	V <sub>DS</sub> =-24V, V <sub>GS</sub> =0V	-	-	-1	μA
Gate Body Leakage Current, Forward	IGSSF	V <sub>GS</sub> =12V, V <sub>DS</sub> =0V	-	-	100	nA
Gate Body Leakage Current, Reverse	IGSSR	V <sub>GS</sub> =-12V, V <sub>DS</sub> =0V	-	-	-100	nA
<b>On Characteristics</b>						
Gate Threshold Voltage	V <sub>GS(th)</sub>	V <sub>GS</sub> = V <sub>DS</sub> , ID=250μA	-0.7	-	-1.3	V
Static Drain-source On-Resistance	RDS(ON)	V <sub>GS</sub> =-10V, ID=-4.0A	-	55	65	mΩ
		V <sub>GS</sub> =-4.5V, ID=-4.0A	-	70	80	mΩ
		V <sub>GS</sub> =-2.5V, ID=-1.0A	-	80	120	mΩ
<b>Drain-Source Diode Characteristics and Maximum Ratings</b>						
Drain-Source Diode Forward Voltage	V <sub>SD</sub>	V <sub>GS</sub> =0V, IS=-1.0A	-	-	-1.0	V

## Typical Characteristics



## Package Outline Dimensions (UNIT: mm)

SOT-23

