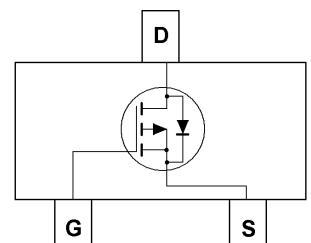


P-Channel Enhancement Mode MOSFET

Feature

- 30V/-4.1A, R_{DS(ON)}=80mΩ(MAX) @V_{GS}= -10V.
R_{DS(ON)}= 100mΩ(MAX) @V_{GS}= -4.5V.
- Super High dense cell design for extremely low R_{DS(ON)}
- Reliable and Rugged
- SC-59 for Surface Mount Package



SC-59

Applications

- Power Management
- Portable Equipment and Battery Powered Systems.

Absolute Maximum Ratings

T_A=25°C Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V _{GS}	±20	V
Drain Current-Continuous	I _D	-4.1	A

Electrical Characteristics

T_A=25°C Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	V _{GS} =0V, ID=-250μA	-30	-	-	V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-30V, V _{GS} =0V	-	-	-1	μA
Gate Body Leakage Current, Forward	IGSSF	V _{GS} =20V, V _{DS} =0V	-	-	100	nA
Gate Body Leakage Current, Reverse	IGSSR	V _{GS} =-20V, V _{DS} =0V	-	-	-100	nA
On Characteristics						
Gate Threshold Voltage	V _{GS(th)}	V _{GS} = V _{DS} , ID=-250μA	-1.0	-	-3.0	V
Static Drain-source On-Resistance	R _{DS(ON)}	V _{GS} =-10V, ID =-4.1A	-	65	80	mΩ
		V _{GS} =-4.5V, ID =-4.0A	-	85	100	mΩ
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	V _{SD}	V _{GS} =0V, IS=-1.0A	-	-	-1.2	V

Typical Characteristics

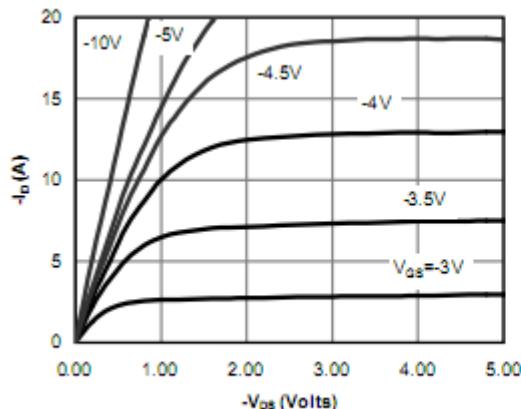


Figure 1: On-Region Characteristics

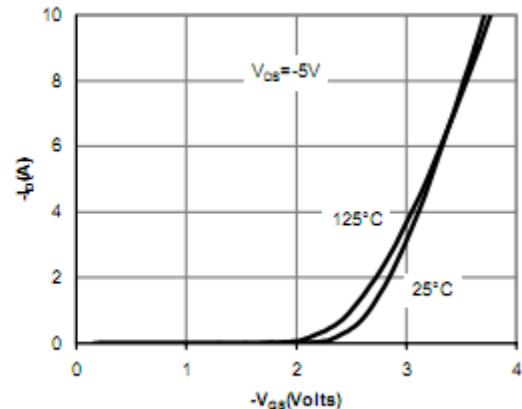
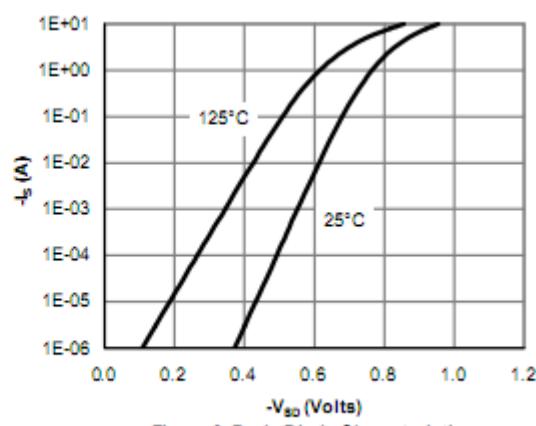
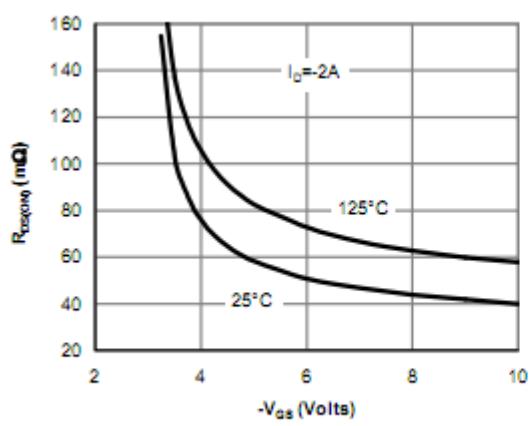
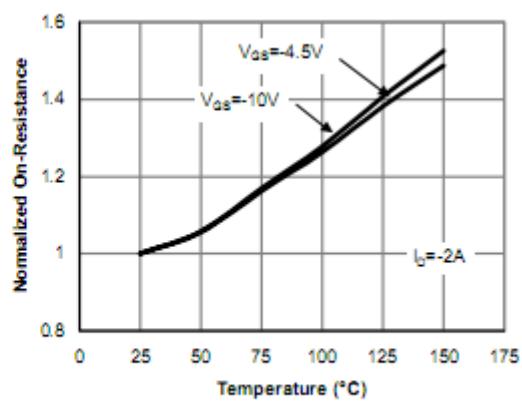
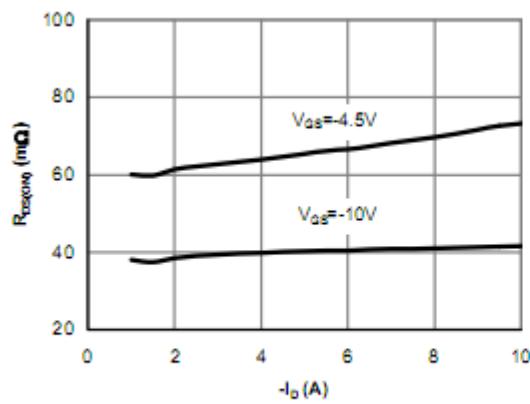


Figure 2: Transfer Characteristics



Typical Characteristics

