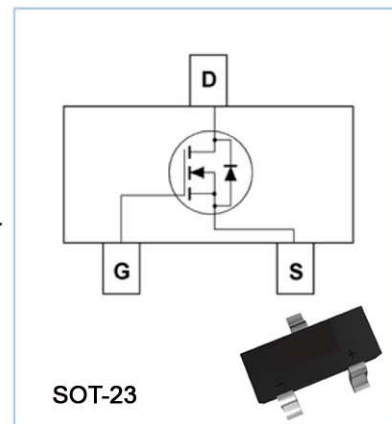## N-Channel Enhancement Mode MOSFET

Feature

- 50V/0.2A, $R_{DS(ON)} = 3.5\,\Omega$ (MAX) @$V_{GS} = 5V$. Id = 0.2A
  $R_{DS(ON)} = 10\,\Omega$ (MAX) @$V_{GS} = 2.75V$. Id = 0.2A
- Super High dense cell design for extremely low $R_{DS(ON)}$.
- Reliable and Rugged.
- Low Threshold Voltage (0.5V—1.5V) Make it Ideal for Low Voltage Applications.
- SOT-23 for Surface Mount Package.

SOT-23

Applications

- Power Management in DC/DC Converters、 Portable and Battery-powered Products.

Absolute Maximum Ratings T_A=25℃ Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V_{DS}	50	V
Gate-Source Voltage	V_{GS}	±20	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=250µA	50	-	-	V
Zero-Gate Voltage Drain Current	IDSS	VDS=50V, VGS=0V	-	-	0.5	µA
		VDS=25V, VGS=0V	-	-	0.1	
Gate Body Leakage Current, Forward	IGSSF	VGS=20V, VDS=0V	-	-	100	nA
Gate Body Leakage Current, Reverse	IGSSR	VGS=-20V, VDS=0V	-	-	-100	nA
On Characteristics						
Gate Threshold Voltage	VGS(th)	VGS= VDS, ID=1.0 mA	0.5	-	1.5	V
Static Drain-source On-Resistance	RDS(ON)	VGS =5.0V, ID =0.2A	-	-	3.5	Ω
		VGS =2.75V, ID =0.2A	-	-	10	Ω
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	VSD	VGS =0V, IS=0.2A			2.5	V

Typical Characteristics

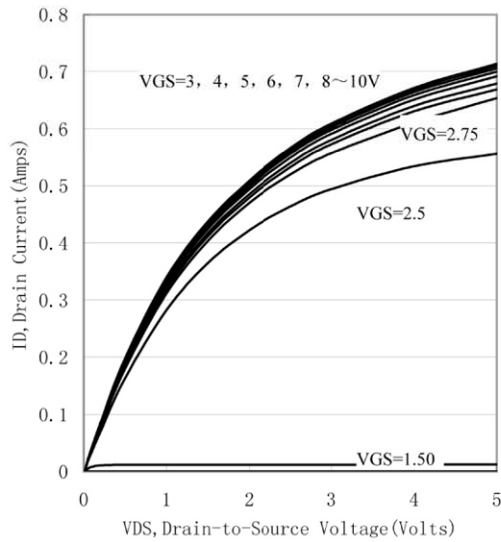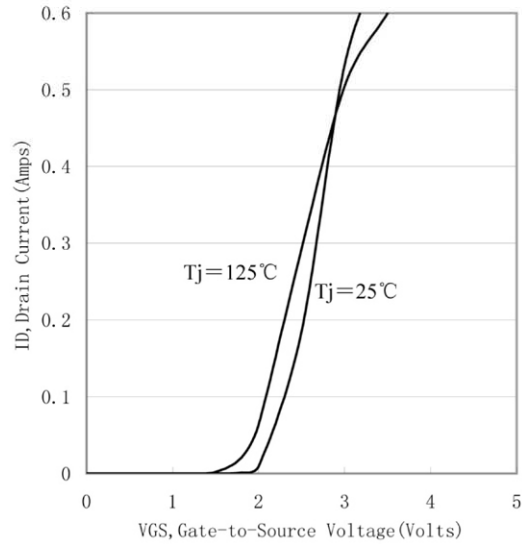

Figure 1．Output Characteristics
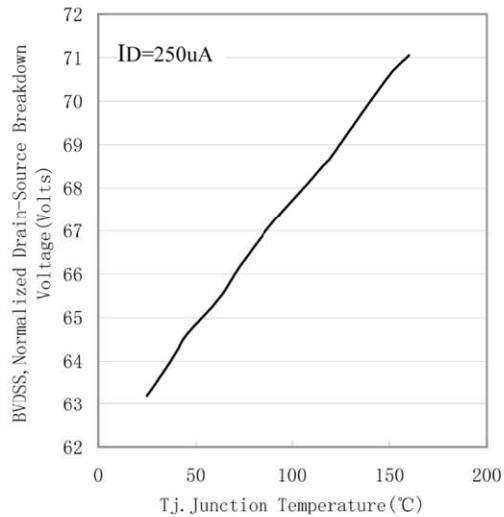

Figure 2．Transfer Characteristics

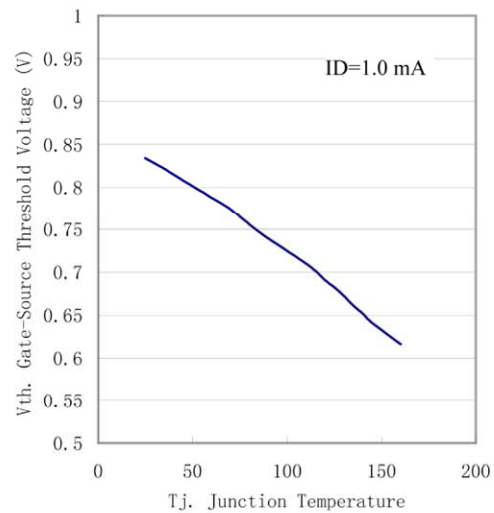Figure 3．Breakdown Voltage Variation
with Temperature

Figure 4．Gate Threshold Variation
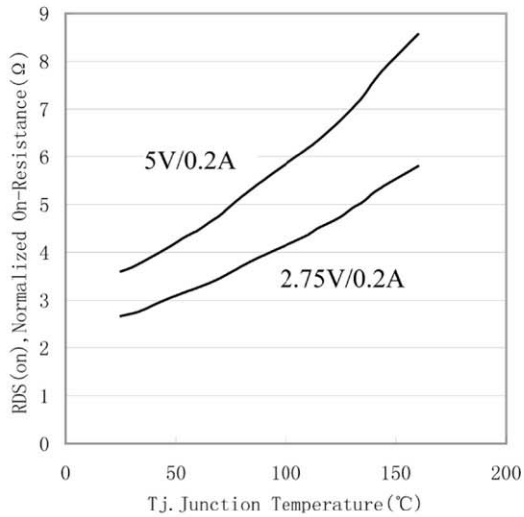with Temperature

Typical Characteristics
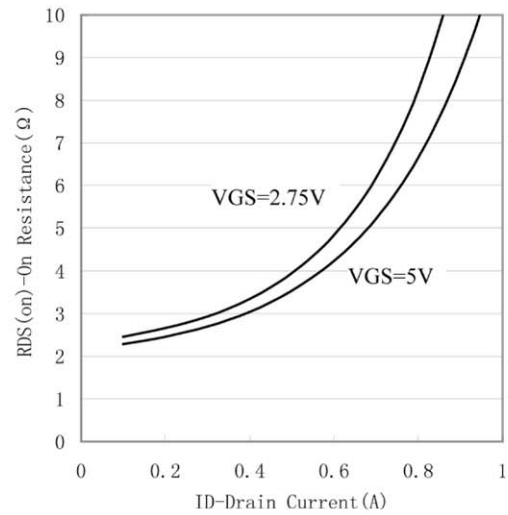

Figure 5. On-Resistance Variation with Temperature

Figure 6. On-Resistance vs. Drain Current
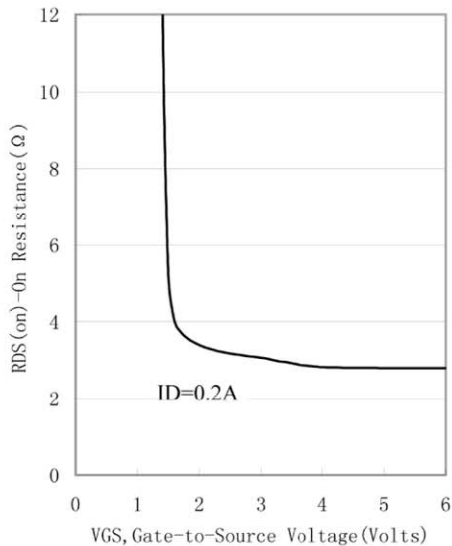

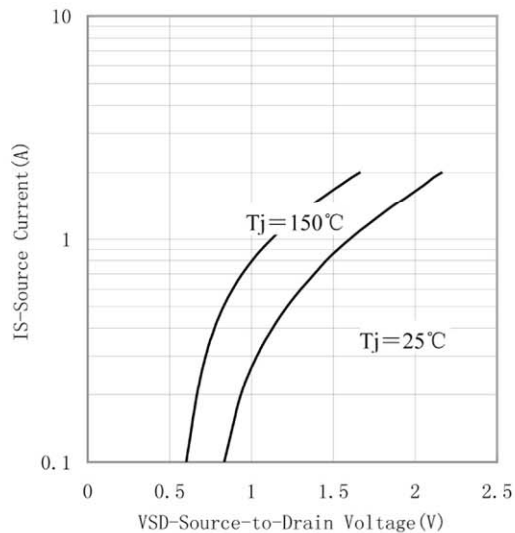**Figure 7. On-Resistance vs. Gate-to-Source Voltage**

Figure 8. Source-Drain Diode Forward Voltage

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for MOSFET *category:*

Click to view products by Shikues *manufacturer:*

Other Similar products are found below :

614233C 648584F FDPF9N50NZ IRFD120 IRFF430 JANTX2N5237 2N7000 FCA20N60_F109 FDZ595PZ 2SK2267(Q) 2SK2545(Q,T) 405094E 423220D MIC4420CM-TR VN1206L 614234A 715780A SSM6J414TU,LF(T 751625C PSMN4R2-30MLD TK31J60W5,S1VQ(O 2SK2614(TE16L1,Q) DMN1017UCP3-7 EFC2J004NUZTDG FCAB21350L1 P85W28HP2F-7071 DMN1053UCP4-7 NTE2384 NTE2969 NTE6400A DMN61D9UWQ-13 US6M2GTR DMN31D5UDJ-7 SSM6P54TU,LF DMP22D4UFO-7B IPS60R3K4CEAKMA1 DMN1006UCA6-7 DMN16M9UCA6-7 STF5N65M6 STU5N65M6 C3M0021120D DMN13M9UCA6-7 BSS340NWH6327XTSA1 MCM3400A-TP DMTH10H4M6SPS-13 IPS60R1K0PFD7SAKMA1 IPS60R360PFD7SAKMA1 IPS60R600PFD7SAKMA1 IPS60R210PFD7SAKMA1 DMN2990UFB-7B