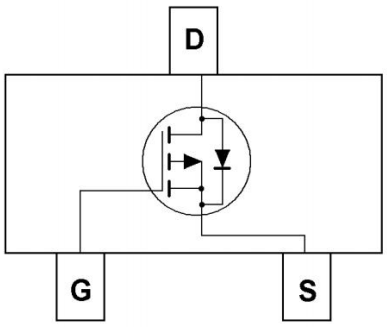
SK2301A

P-Channel Enhancement Mode MOSFET



Features

- -20V/3A, $R_{DS(ON)}$=120mΩ(Max) @V_{GS}=-4.5V
  $R_{DS(ON)}$=150mΩ(Max) @V_{GS}=-2.5V
- Super High dense cell design for extremely low $R_{DS(ON)}$
- Reliable and Rugged
- SC-59 for Surface Mount Package

Applications

- Power Management
- Portable Equipment and Battery Powered Systems.



SC-59

Absolute Maximum Ratings

T_A=25℃,unless otherwise noted.

Parameter	Symbol	Limit	Unit
Drain-source Voltage	V_{DS}	-20	V
Gate-source Voltage	V_{GS}	±10	V
Drain Current-Continuous	I_D	-3	A

Electrical Characteristics

T_A=25℃,unless otherwise noted.

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Off Characteristics						
Drain-source breakdown voltage	BV_{DSS}	V_{GS}=0V, I_D=250μA	-20			V
Drain-source leakage current	I_{DSS}	V_{DS}=-20V, V_{GS}=0V			-1	μA
Gate-source leakage current,Forward	I_{GSSF}	V_{GS}=10V, V_{DS}=0V			100	nA
Gate-source leakage current,Reverse	I_{GSSR}	V_{GS}=-10V, V_{DS}=0V			-100	nA
On Characteristics						
Gate Threshold voltage	$V_{GS(th)}$	V_{DS}=V_{GS} , I_D=-250μA	-0.4		1.0	V
Drain-source on resistance	$R_{DS(on)}$	V_{GS}= -4.5V, I_D= -3.0A			120	m Ω
		V_{GS}= -2.5V, I_D= -2.0A			150	
Drain-Source Diode Characteristics and Maximum Ratings						
Diode forward voltage drop	V_{SD}	V_{GS}=0V, I_S=-1.25A			-1.2	V

Typical Characteristics

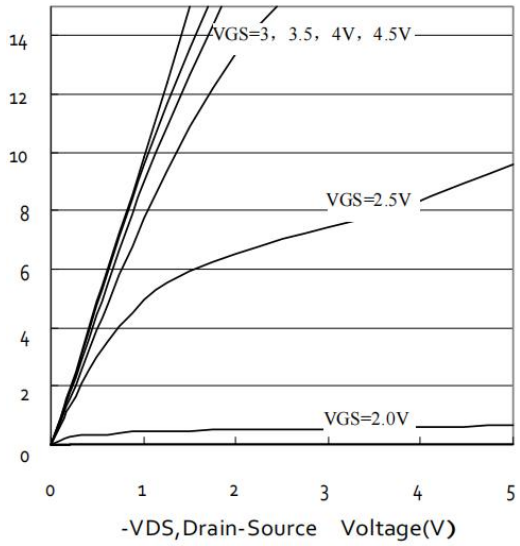


Figure 1. Output Characteristics

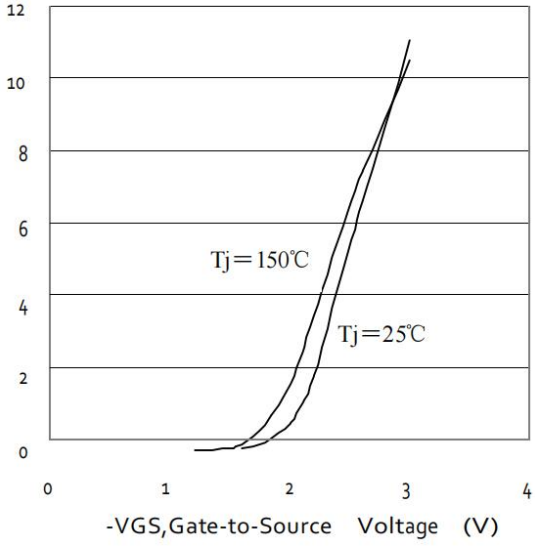


Figure 2. Transfer Characteristics

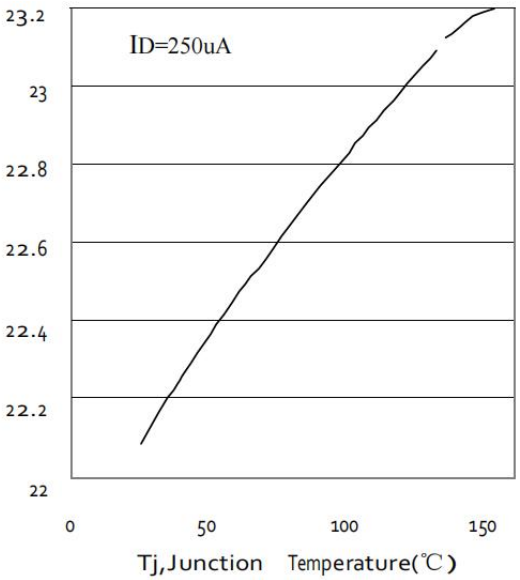


Figure 3. Breakdown Voltage Variation with Temperature

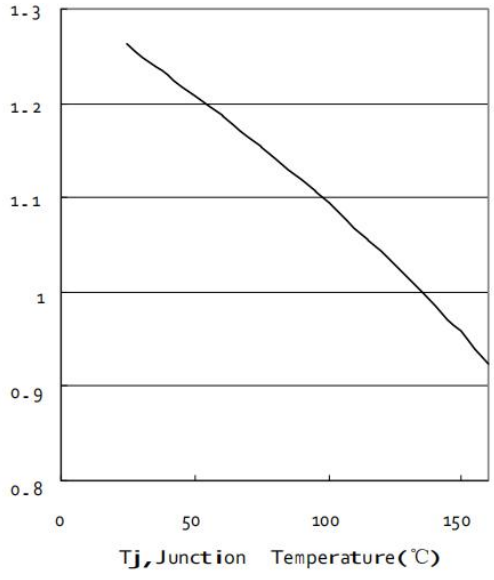


Figure 4. Gate Threshold Variation with Temperature

Typical Characteristics

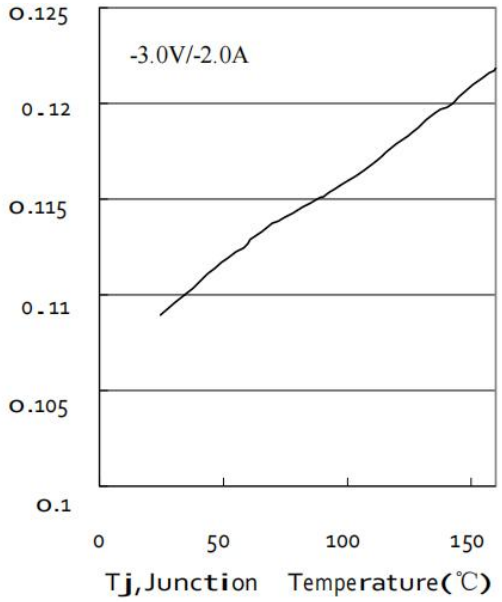


Figure 5. On-Resistance Variation with Temperature

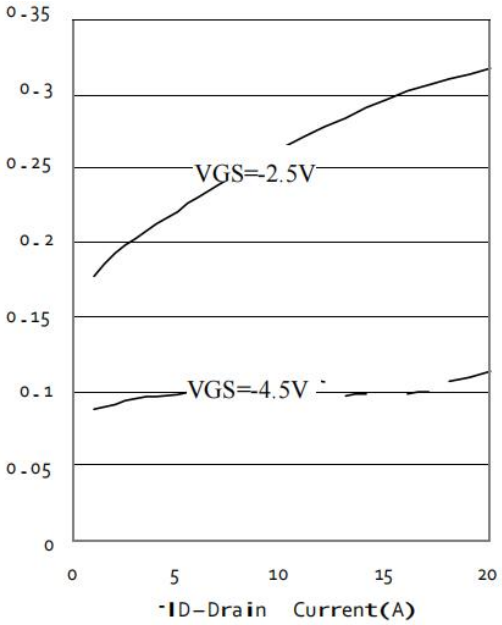


Figure 6. On-Resistance vs. Drain Current

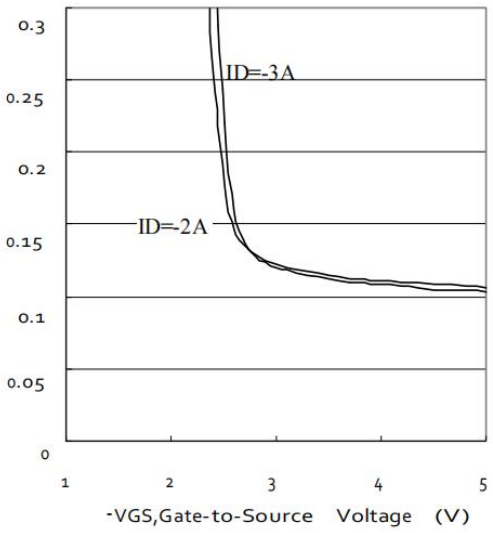


Figure 7. On-Resistance vs. Gate-to-Source Voltage

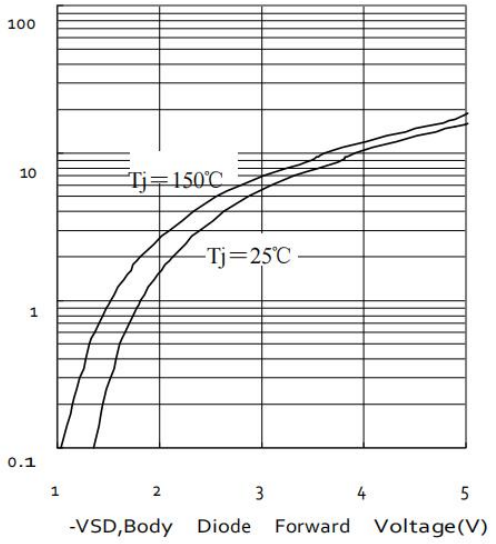
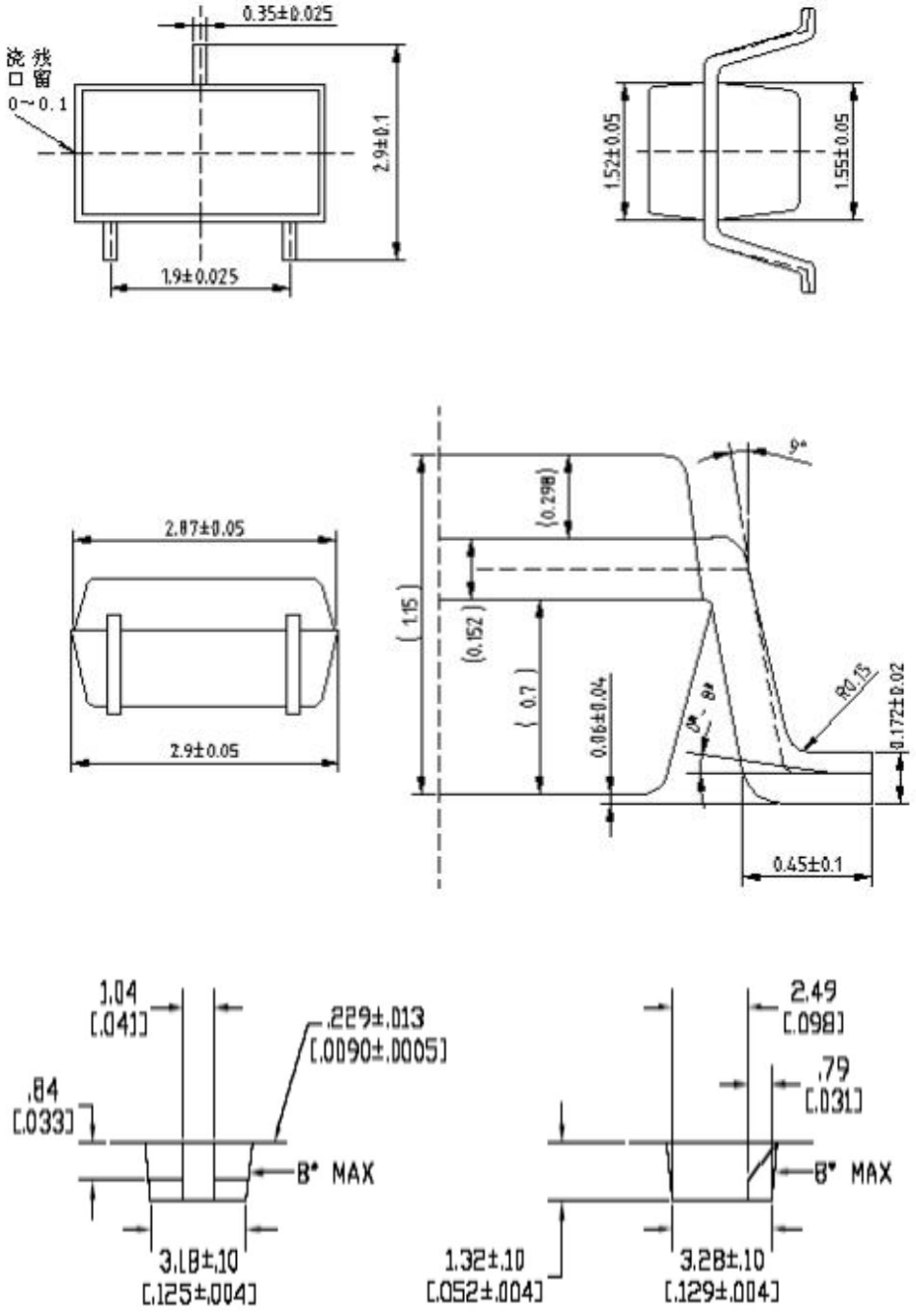


Figure 8. Source-Drain Diode Forward Voltage

Package Information

SC-59

Dimensions in mm



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