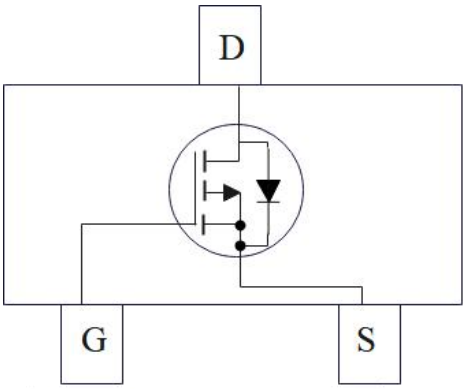
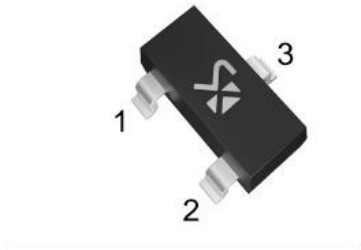
SK2307A

P-Channel Enhancement Mode MOSFET





SC-59

Features

- -30V/-3.2A, $R_{DS(ON)}$=70mΩ(Max)@V_{GS}=-10V
  $R_{DS(ON)}$=90mΩ(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

Applications

- Power Management
- Portable Equipment and Battery Powered Systems.

Absolute Maximum Ratings

T_A=25℃,unless otherwise noted.

Parameter	Symbol	Limit	Unit
Drain-source Voltage	V_{DS}	-30	V
Gate-source Voltage	V_{GS}	±20	V
Drain Current-Continuous	I_D	-3.2	A
Maximum Junction-to-Ambient	R_{thJA}	130	℃/W
Power Dissipation	P_D	1.25	W
Junction Temperature	T_J	-50~150	℃
Storage Temperature Range	T_{STG}	-50~150	℃

Electrical Characteristics

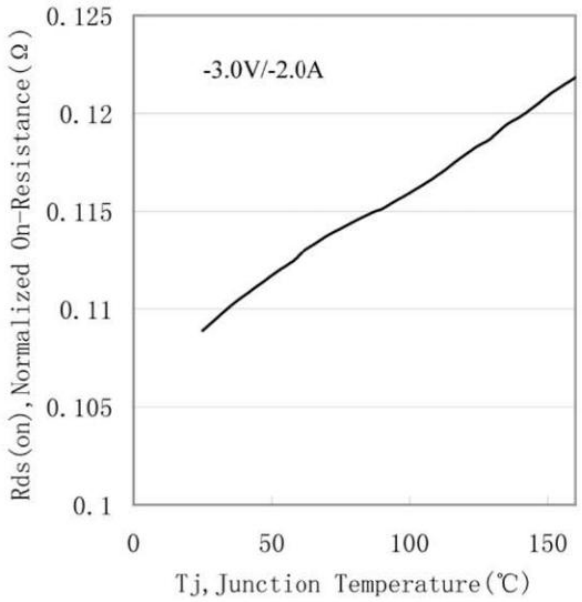
T_A=25℃,unless otherwise noted.

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Static						
Drain-source breakdown voltage	BV_{DSS}	V_{GS}=0V, I_D=-250μA	-30			V
Drain-source leakage current	I_{DSS}	V_{DS}=-30V, V_{GS}=0V			-1	μA
Gate-source leakage current,Forward	I_{GSSF}	V_{GS}=20V, V_{DS}=0V			100	nA
Gate-source leakage current,Reverse	I_{GSSR}	V_{GS}=-20V, V_{DS}=0V			-100	nA
On Characteristics						

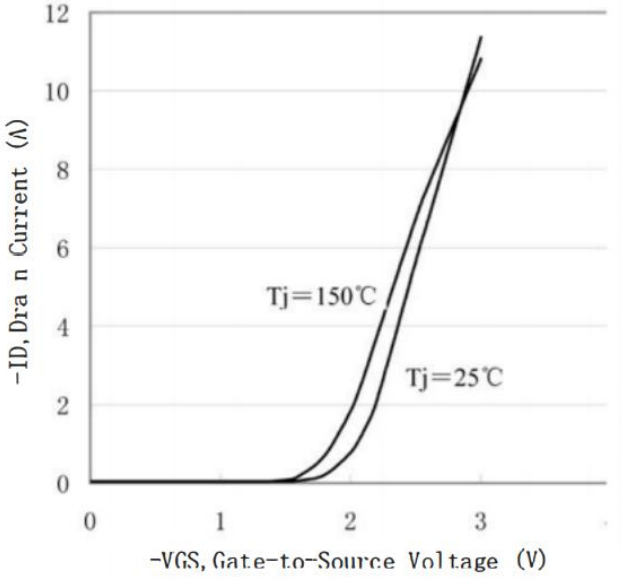
Gate Threshold voltage	$V_{GS(th)}$	V_{DS}=V_{GS}, I_D=-250μA	-1		-3	V
Drain-source on resistance	$R_{DS(on)}$	V_{GS}= -10V, I_D= -3.2A		52	70	m Ω
		V_{GS}= -4.5V, I_D= -2.5A		70	90	
Drain-Source Diode Characteristics and Maximum Ratings						
Diode forward voltage drop	V_{SD}	V_{GS}=0V, I_S=1.25A			-1.2	V

Typical Characteristics

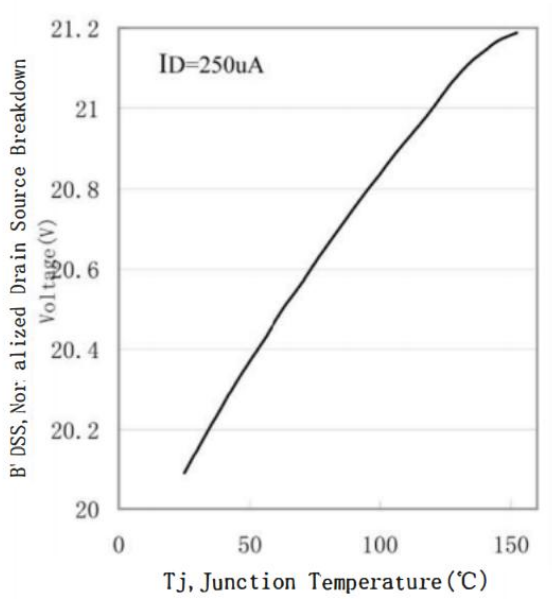
1.Output Characteristics



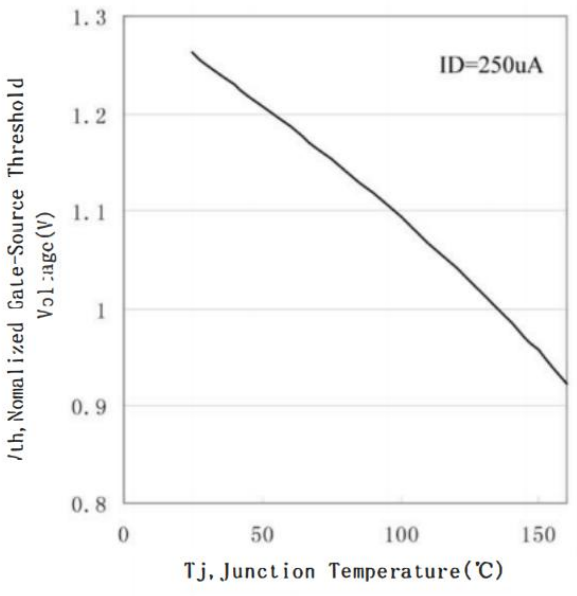
2.Transfer Characteristics



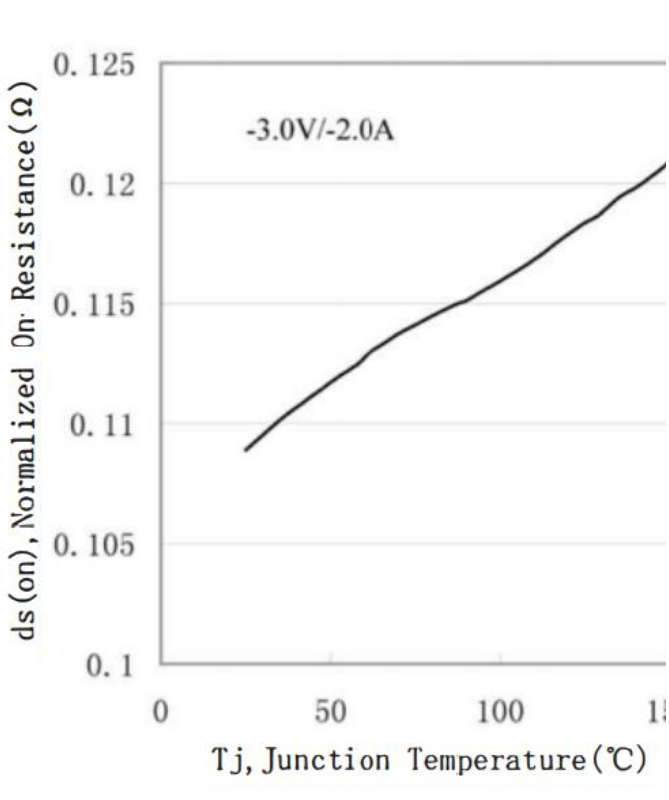
3.Breakdown Voltage Variation with Temperature



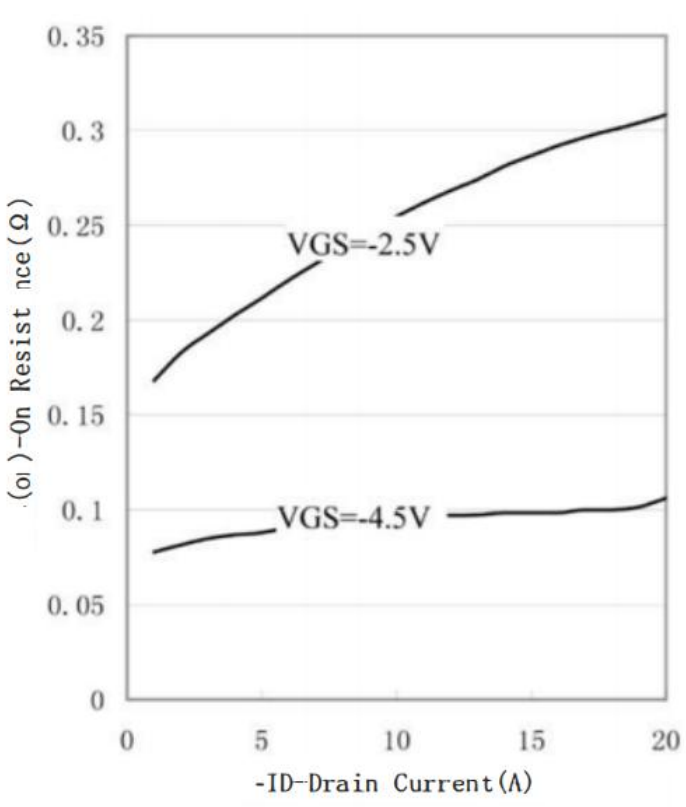
4. Gate Threshold Variation with Temperature



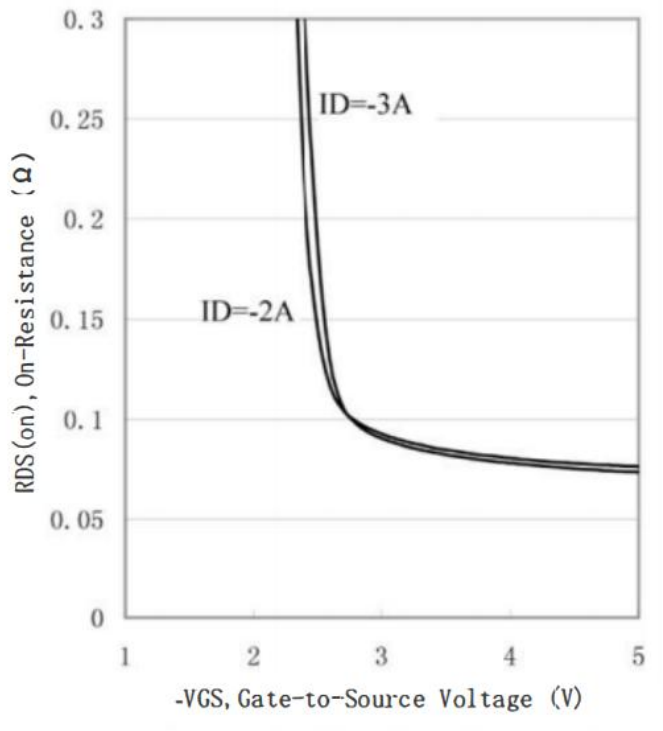
5.On-Resistance Variation with Temperature



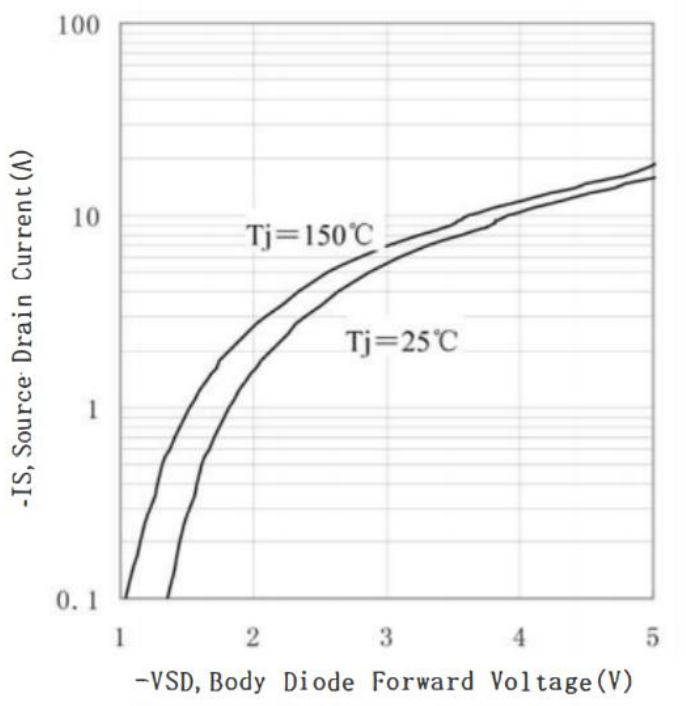
6.On-Resistance vs. Drain Current



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



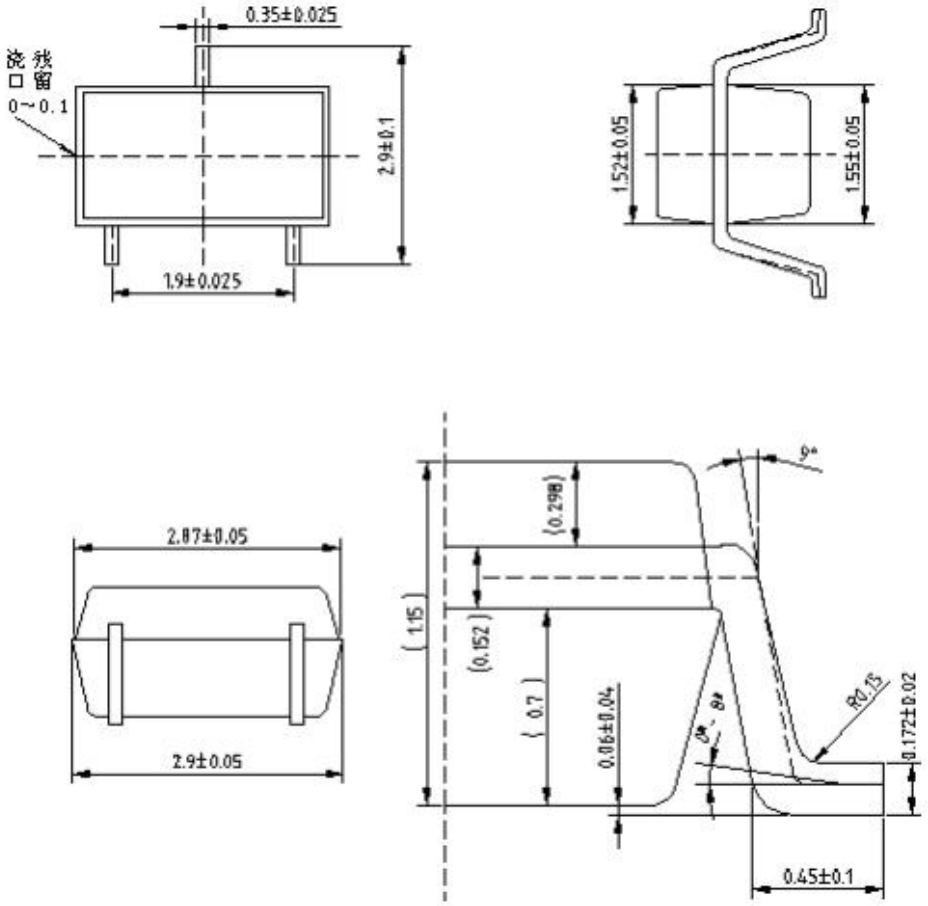
8.Source-Drain Diode Forward Voltage



Package Information

SC-59

Dimensions in mm



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