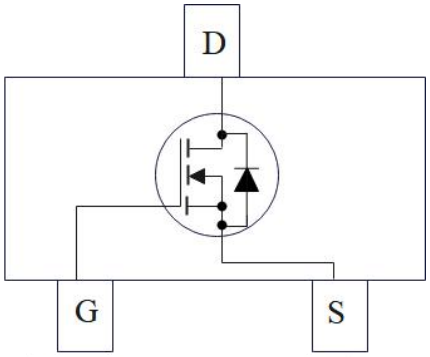
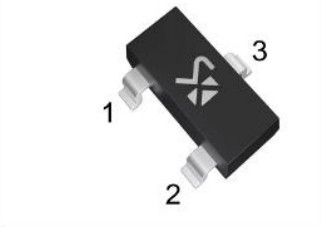
SK2302A

N-Channel MOSFET





SC-59

Features

- 20V/3.6A, $R_{DS(ON)}$=80mΩ(Max)@V_{GS}=4.5V
  $R_{DS(ON)}$=90mΩ(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.

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}	±8	V
Drain Current-Continuous	I_D	3.6	A

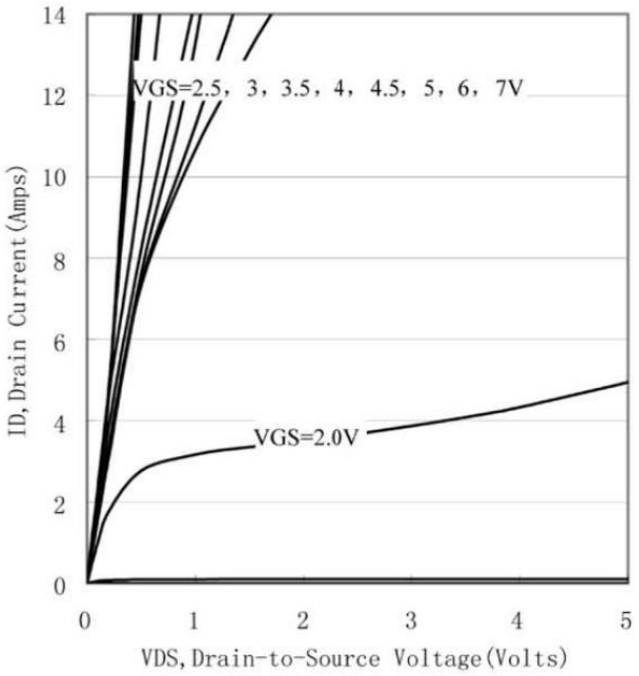
Electrical Characteristics

T_A=25℃,unless otherwise noted.

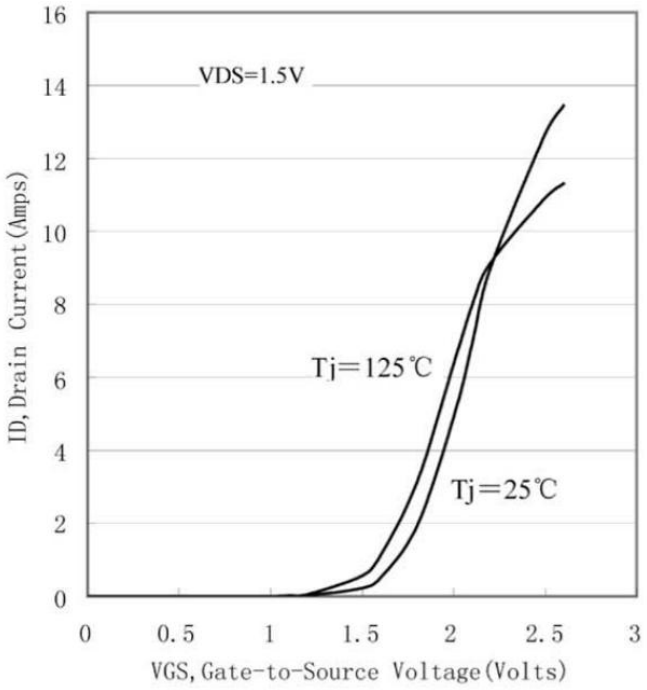
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Off Characteristics						
Drain-source breakdown voltage	BV_{DSS}	V_{GS}=0V, I_D=250μA	20			V
Drain-source leakage current	I_{DSS}	V_{DS}=12V, V_{GS}=0V			1	μA
Gate-source leakage current,Forward	I_{GSSF}	V_{GS}=8V, V_{DS}=0V			100	nA
Gate-source leakage current,Reverse	I_{GSSR}	V_{GS}=-8V, V_{DS}=0V			-100	nA
On Characteristics						
Gate Threshold voltage	$V_{GS(th)}$	V_{DS}=V_{GS} , I_D=250μA	0.4		1.3	V
Drain-source on resistance	$R_{DS(on)}$	V_{GS}= 4.5V, I_D= 3.6A		70	80	m Ω
		V_{GS}= 2.5V, I_D= 3.1A		75	90	
Drain-Source Diode Characteristics and Maximum Ratings						
Diode forward voltage drop	V_{SD}	V_{GS}=0V, I_S=0.94A			1.2	V

Typical Characteristics

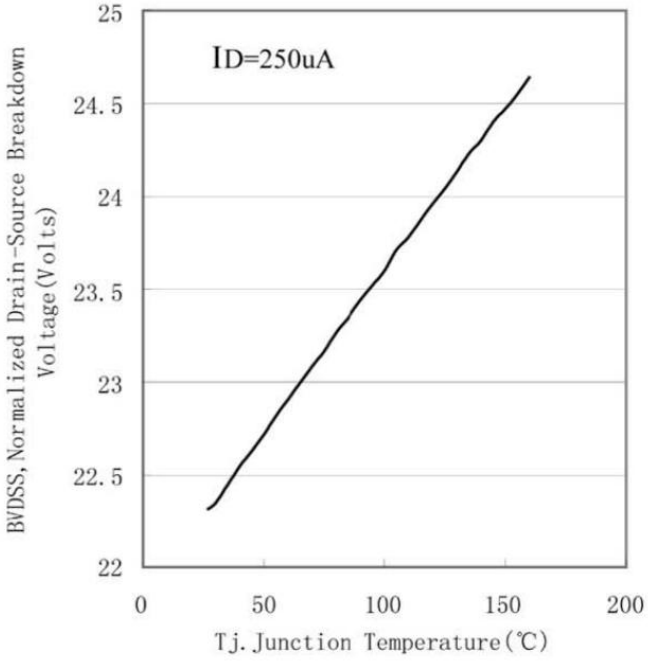
1.Output Characteristics



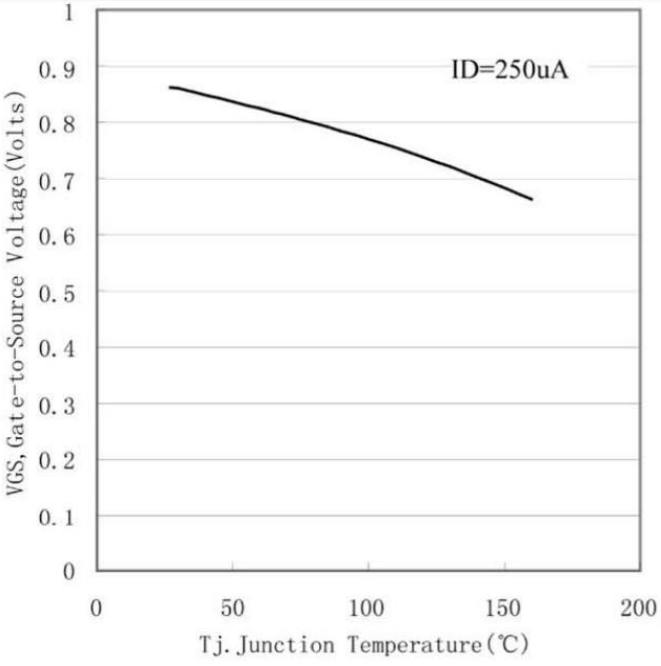
2.Transfer Characteristics



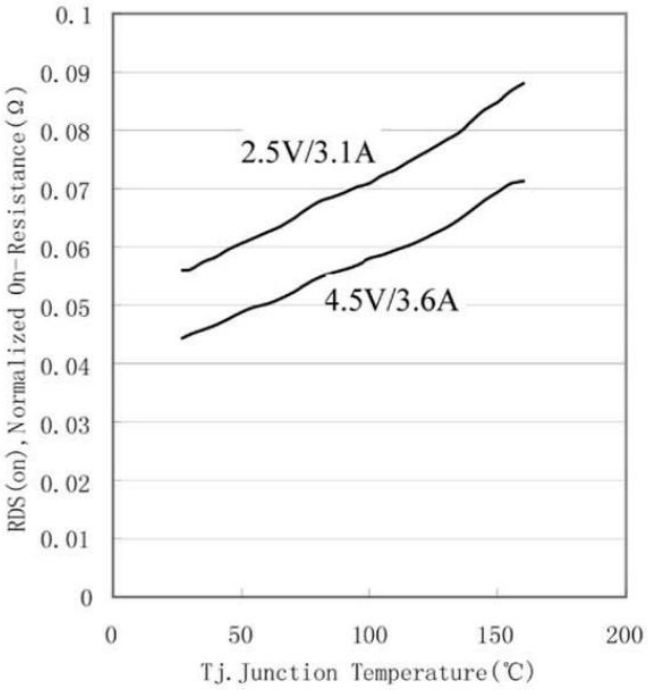
3.Breakdown Voltage Variation with Temperature



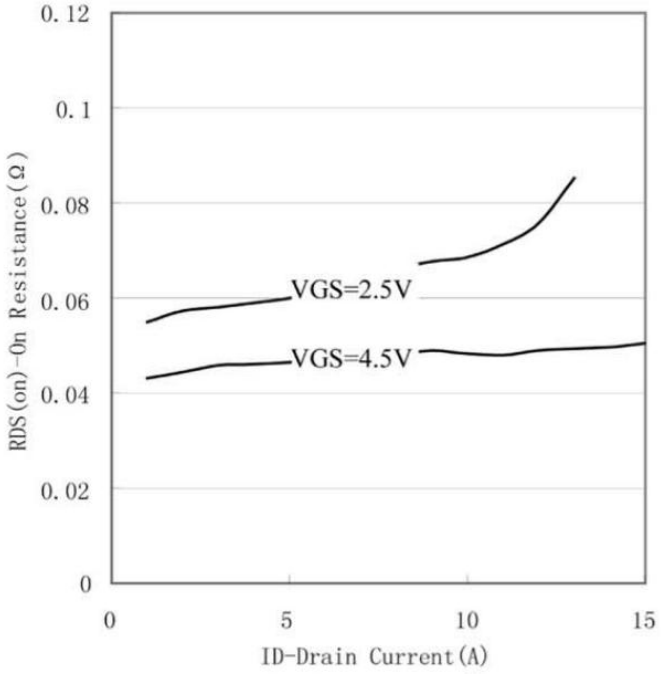
4. Gate Threshold Variation with Temperature



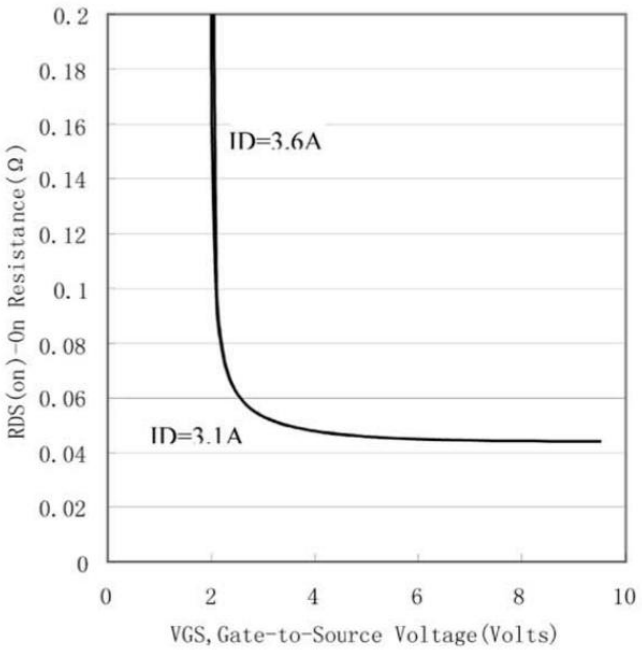
5.On-Resistance Variation with Temperature



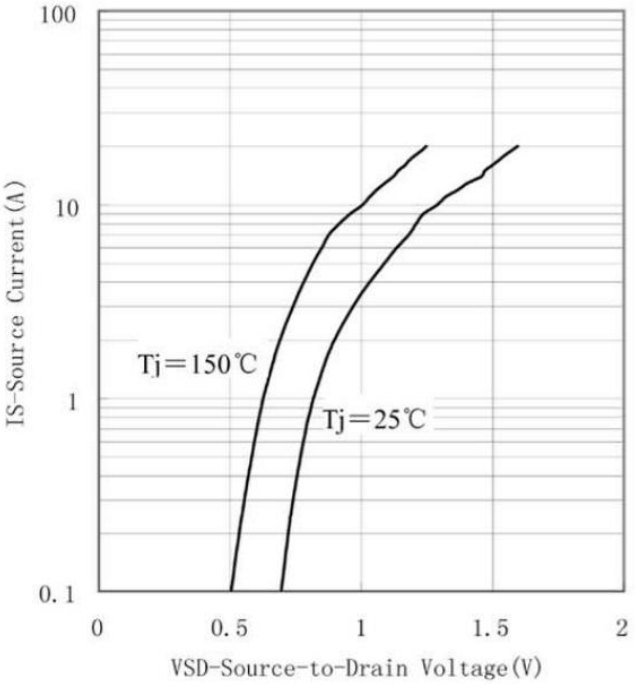
6.On-Resistance vs. Drain Current



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



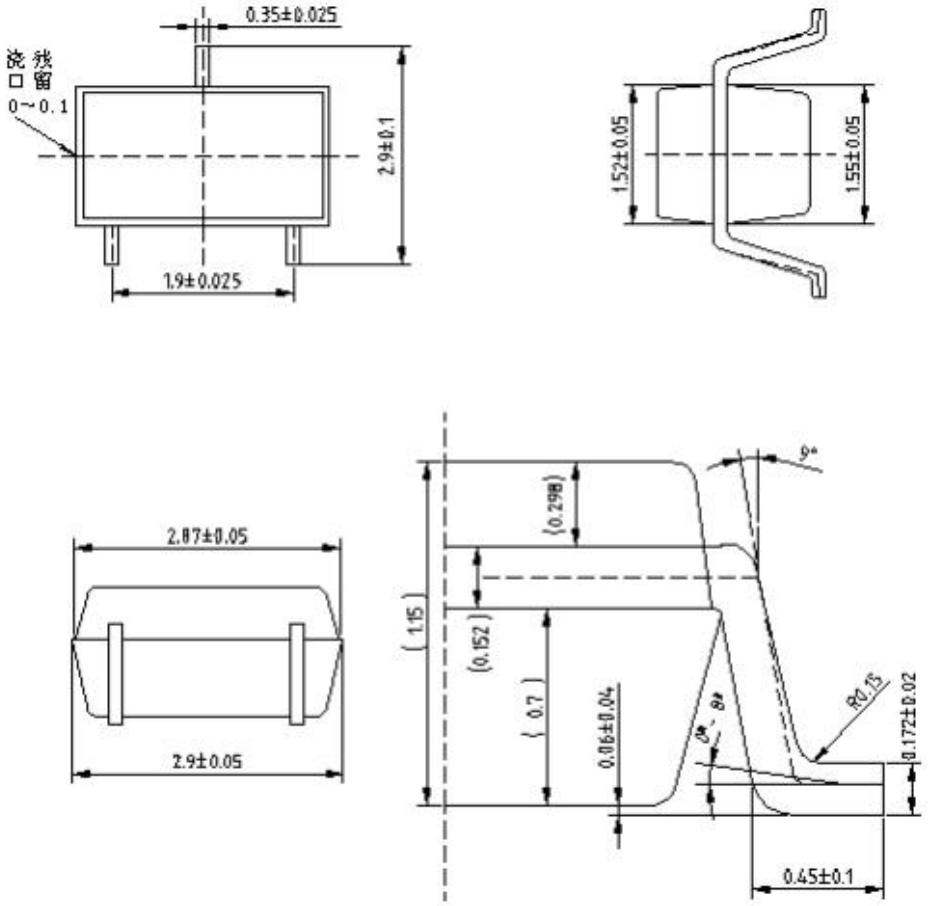
8.Source-Drain Diode Forward Voltage



Package Information

SC-59

Dimensions in mm



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