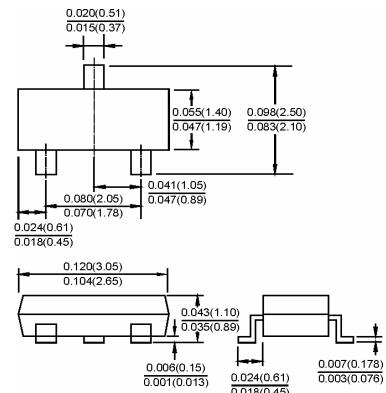


1. GATE
2. SOURCE
3. DRAIN

SOT-23



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{DS}	Drain-Source voltage	60	V
I _D	Drain Current	115	mA
P _D	Power Dissipation	225	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0 V, I _D =10 μA	60			V
Gate-Threshold Voltage	V _{th(GS)}					
Gate-body Leakage	I _{GSS}	V _{DS} =0 V, V _{GS} =± 25 V			±80	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60 V, V _{GS} =0 V			80	nA
On-state Drain Current	I _{D(ON)}	V _{GS} =10 V, V _{DS} =7 V	500			mA
Drain-Source On-Resistance	r _{DS(on)}	V _{GS} =10 V, I _D =500mA	1		7.5	Ω
		V _{GS} =5 V, I _D =50mA	1		7.5	
Forward Trans conductance	g _f	V _{DS} =10 V, I _D =200mA	80		500	ms
Drain-source on-voltage	V _{DS(on)}	V _{GS} =10V, I _D =500mA	0.5		3.75	V
		V _{GS} =5V, I _D =50mA	0.05		0.375	V
Diode Forward Voltage	V _{SD}	I _S =115mA, V _{GS} =0 V	0.55		1.2	V
Input Capacitance	C _{iss}	V _{DS} =25V, V _{GS} =0V, f=1MHz			50	pF
Output Capacitance	C _{oss}				25	
Reverse Transfer Capacitance	C _{rss}				5	

SWITCHING TIME

Turn-on Time	t _{d(on)}	V _{DD} =25 V, R _L =50Ω			20	ns
Turn-off Time	t _{d(off)}	I _D =500mA, V _{GEN} =10 V			40	
		R _G =25 Ω				

Typical characteristics

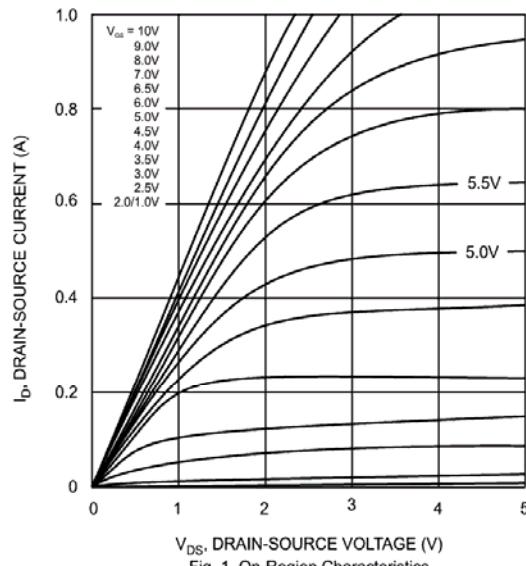


Fig. 1 On-Region Characteristics

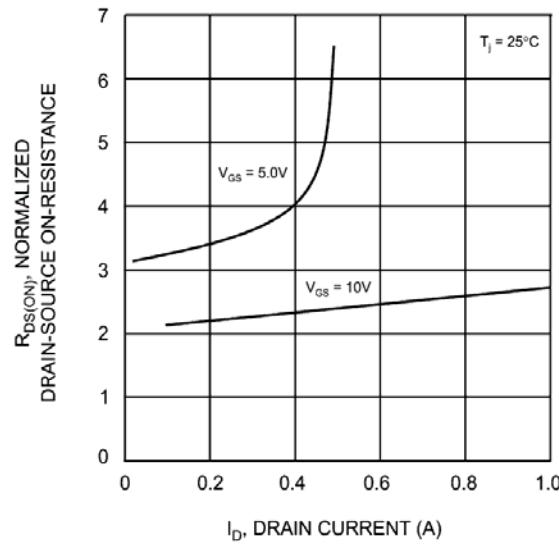


Fig. 2 On-Resistance vs Drain Current

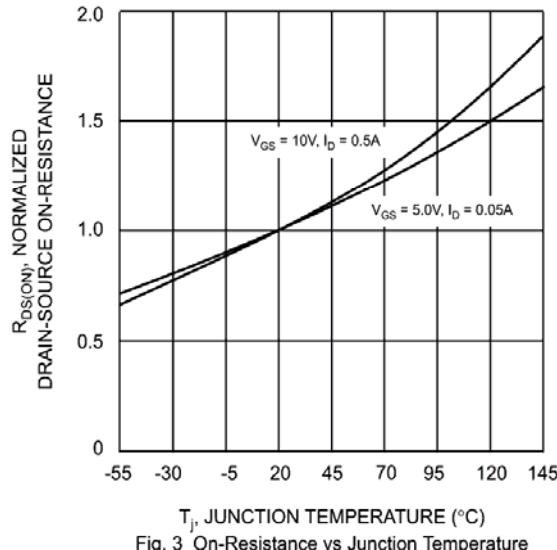


Fig. 3 On-Resistance vs Junction Temperature

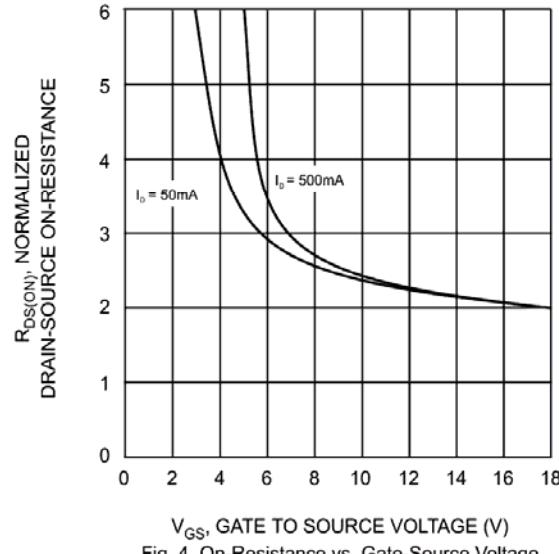


Fig. 4 On-Resistance vs. Gate-Source Voltage