

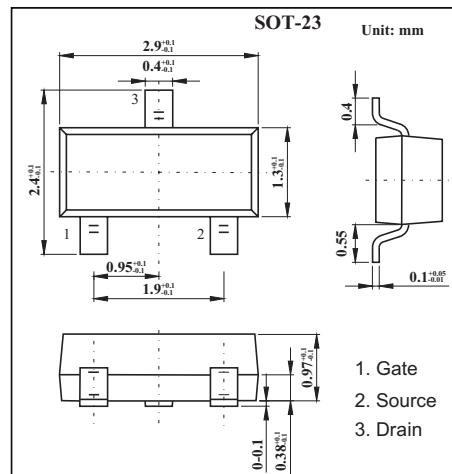
SOT-23 Plastic-Encapsulate MOSFETs

Features

- ID = -0.13 A
- VDS (V) = -50V
- RDS(ON) ≤ 10Ω (VGS = -5V)
- P-Channel Enhancement Mode MOSFET

MECHANICAL DATA

- Case style:SOT-523molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DSS}	-50	V
Gate-Source Voltage	V _{GSS}	±20	V
Drain Current * – Continuous – Pulsed	I _D	-130	mA
		-520	
Total Power Dissipation *	P _d	300	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	417	°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +150	°C

* Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch;

MOSFET ELECTRICAL CHARACTERISTICS Ta=25 °C unless otherwise specified

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	B _{VDSS}	V _{GS} = 0V, I _D = -250μA	-50			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = -50V, V _{GS} = 0V, T _J = 25°C			-15	μA
		V _{DS} = -50V, V _{GS} = 0V, T _J = 125°C			-60	μA
Gate-Body Leakage	I _{GSS}	V _{GS} = ±20V, V _{DS} = 0V			±10	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} = V _{GS} , I _D = -1mA	-0.8	-2.0		V
Static Drain-Source On-Resistance	R _{D(S)}	V _{GS} = -5V, I _D = -100mA			10	Ω
Forward Transconductance	g _F	V _{DS} = -25V, I _D = -0.1A	0.05			S
Input Capacitance	C _{iss}	V _{DS} = -25V, V _{GS} = 0V, f = 1.0MHz			45	pF
Output Capacitance	C _{oss}				25	pF
Reverse Transfer Capacitance	C _{rss}				12	pF
Turn-On Delay Time	t _{D(ON)}	V _{DD} = -30V, I _D = -0.27A,		10		ns
Turn-Off Delay Time	t _{D(OFF)}	R _{GEN} = 50Ω, V _{GS} = -10V		18		ns