P-Channel Enhancement-Mode MOSFETs
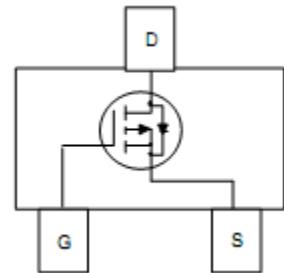
SOT-23

■MAXIMUM RATINGS

Characteristic	Symbol	Max	Unit
Drain-Source Voltage	BV_{DSS}	-30	V
Gate- Source Voltage	V_{GS}	±12	V
Drain Current (continuous)	I_D	-2.6	A
Drain Current (pulsed)	I_{DM}	-18	A
Total Device Dissipation $T_A=25℃$	P_D	1000	mW
Junction	T_J	150	℃
Storage Temperature	T_{stg}	-55to+150	℃

■ELECTRICAL CHARACTERISTICS

(T_A=25℃ unless otherwise noted 25℃)

Characteristic	Symbol	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage (I_D = -250uA,V_{GS}=0V)	BV_{DSS}	-30	—	—	V
Gate Threshold Voltage (I_D = -250uA,V_{GS}= V_{DS})	$V_{GS(th)}$	-1.3	—	-2.3	V
Diode Forward Voltage Drop (I_S= -1A,V_{GS}=0V)	V_{SD}	—	—	-1	V
Zero Gate Voltage Drain Current (V_{GS}=0V, V_{DS}= -24V) (V_{GS}=0V, V_{DS}= -24V, T_A=55℃)	I_{DSS}	—	—	-1 -5	uA
Gate Body Leakage (V_{GS}=±12V, V_{DS}=0V)	I_{GSS}	—	—	±100	nA
Static Drain-Source On-State Resistance (I_D= -2.6A,V_{GS}= -10V)	$R_{DS(ON)}$	—	—	130	mΩ
Static Drain-Source On-State Resistance (I_D= -2A,V_{GS}= -4.5V)	$R_{DS(ON)}$	—	—	180	mΩ
Input Capacitance (V_{GS}=0V, V_{DS}= -15V,f=1MHz)	C_{ISS}	—	854	—	pF
Output Capacitance (V_{GS}=0V, V_{DS}= -15V,f=1MHz)	C_{OSS}	—	105	—	pF
Turn-ON Time (V_{DS}= -15V, V_{GS}= -10V, R_{GEN}=6Ω)	$t_{(on)}$	—	9	—	ns
Turn-OFF Time (V_{DS}= -15V, V_{GS}= -10V, R_{GEN}=6Ω)	$t_{(off)}$	—	38	—	ns

Pulse Width≤300μs; Duty Cycle≤2.0%

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