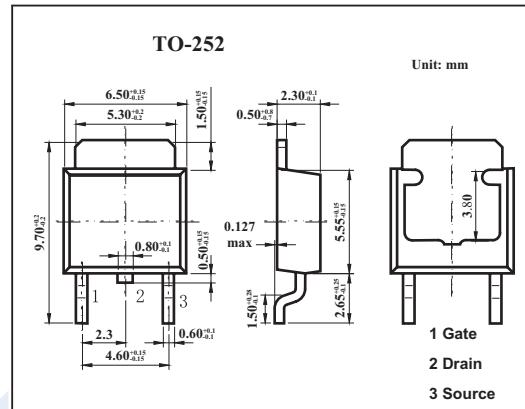
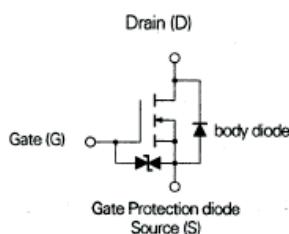


MOS Field Effect Power Transistor

2SK1284

■ Features

- Low on-state resistance
 $R_{DS(on)} \leq 0.32 \Omega$ @ $V_{GS}=10V, I_D=2A$
 $R_{DS(on)} \leq 0.40 \Omega$ @ $V_{GS}=4V, I_D=2A$
- Low C_{iss} C_{iss}=500pF TYP.
- Built-in G-S Gate Protection Diode



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Drain to source voltage	V _{DSS}	100	V
Gate to source voltage	V _{GSS}	±20	V
Drain current (DC)	I _D	±3.0	A
Drain current(pulse) *	I _D	±12	A
Power dissipation	T _c =25°C T _A =25°C	P _D	W
		1.0	W
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* PW ≤ 10ms, duty cycle ≤ 5%

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain cut-off current	I _{DS}	V _D =100V, V _G =0			10	μ A
Gate leakage current	I _{GS}	V _G =±20V, V _D =0			±10	μ A
Gate to source cutoff voltage	V _{GS(off)}	V _D =10V, I _D =1mA	1.0		2.5	V
Forward transfer admittance	Y _{fs}	V _D =10V, I _D =2A	2.4			s
Drain to source on-state resistance	R _{DS(on)}	V _G =10V, I _D =2A		0.26	0.32	Ω
		V _G =4.0V, I _D =2A		0.32	0.40	Ω
Input capacitance	C _{iss}	V _D =10V, V _G =0, f=1MHZ		500		pF
Output capacitance	C _{oss}			160		pF
Reverse transfer capacitance	C _{rss}			20		pF
Turn-on delay time	t _{d(on)}	I _D =2A, V _G =10V, R _L =25Ω, V _D =50V, R _G =10Ω		40		ns
Rise time	t _r			55		ns
Turn-off delay time	t _{d(off)}			500		ns
Fall time	t _f			120		ns