2SK2415

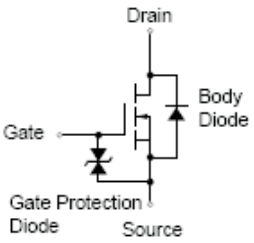
■ Features

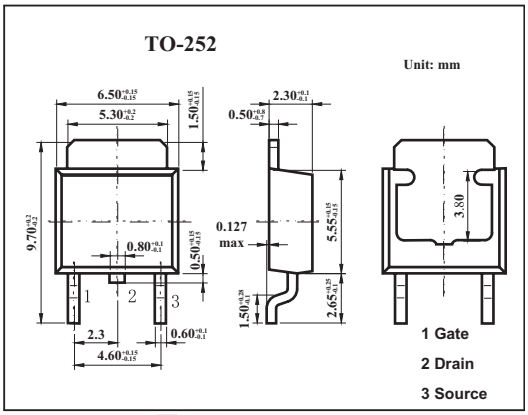
- Low On-Resistance

  $R_{DS(on)1}$ = 0.10Ω MAX. (@ V_{GS} = 10 V, I_D = 4.0A)

  $R_{DS(on)2}$ = 0.15Ω MAX. (@ V_{GS} = 4 V, I_D = 4.0 A)

- Low C_{iss} C_{iss} = 570 pF TYP.





■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Drain to source voltage	V_{DSS}	60	V
Gate to source voltage	V_{GSS}	±20	V
Drain current	I_D	±8.0	A
	I_{dp} *	±32	A
Power dissipation	P_D	20	W
Channel temperature	T_{ch}	150	℃
Storage temperature	T_{stg}	-55 to +150	℃

* PW≤10μs,Duty Cycle≤1%

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain cut-off current	I_{DSS}	V_{DS}=60V,V_{GS}=0			10	μA
Gate leakage current	I_{GSS}	V_{GS}=±20V,V_{DS}=0			±10	μA
Gate to source cutoff voltage	$V_{GS(off)}$	V_{DS}=10V,I_D=1mA	1.0	1.6	2.0	V
Forward transfer admittance	$\|Y_{fs}\|$	V_{DS}=10V,I_D=4A	5.0	8.4		S
Drain to source on-state resistance	$R_{DS(on)}$	V_{GS}=10V,I_D=4A		0.07	0.10	Ω
		V_{GS}=4V,I_D=4A		0.10	0.15	Ω
Input capacitance	C_{iss}	V_{DS}=10V,V_{GS}=0,f=1MHZ		570		pF
Output capacitance	C_{oss}			290		pF
Reverse transfer capacitance	C_{rss}			75		pF
Turn-on delay time	t_{on}	I_D=4A,$V_{GS(on)}$=10V,R_G=10Ω,V_{DD}=30V		5		ns
Rise time	t_r			60		ns
Turn-off delay time	t_{off}			75		ns
Fall time	tf			40		ns