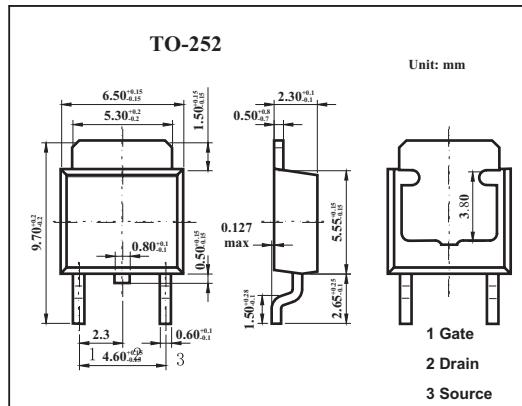


## 2SK3482

### ■ Features

- Super low on-state resistance:  
 $R_{DS(on)1} = 33m\Omega$  MAX. ( $V_{GS} = 10V$ ,  $I_D = 18A$ )  
 $R_{DS(on)2} = 39 m\Omega$  MAX. ( $V_{GS} = 4.5V$ ,  $I_D = 18A$ )
- Low  $C_{iss}$ :  $C_{iss} = 3600 pF$  TYP.



### ■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Drain to source voltage	$V_{DSS}$	100	V
Gate to source voltage	$V_{GSS}$	$\pm 20$	V
Drain current	$I_D$	$\pm 36$	A
	$I_{DP}^*$	$\pm 100$	A
Power dissipation $T_c=25^\circ C$ $T_a=25^\circ C$	$P_D$	50	W
		1.0	
Channel temperature	$T_{ch}$	150	$^\circ C$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ C$

\*  $PW \leq 10 \mu s$ , Duty Cycle  $\leq 1\%$

### ■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain cut-off current	$I_{DSS}$	$V_{DS}=100V, V_{GS}=0$			10	$\mu A$
Gate leakage current	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0$			$\pm 10$	$\mu A$
Gat cutoff voltage	$V_{GS(off)}$	$V_{DS}=10V, I_D=1mA$	1.5	2.0	2.5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS}=10V, I_D=18A$	12	23		S
Drain to source on-state resistance	$R_{DS(on)1}$	$V_{GS}=10V, I_D=18A$		27	33	$m\Omega$
	$R_{DS(on)2}$	$V_{GS}=4.5V, I_D=18A$		29	39	$m\Omega$
Input capacitance	$C_{iss}$	$V_{DS}=10V, V_{GS}=0, f=1MHz$		3600		pF
Output capacitance	$C_{oss}$			360		pF
Reverse transfer capacitance	$C_{rss}$			190		pF
Turn-on delay time	$t_{on}$	$I_D=18A, V_{GS(on)}=10V, R_G=0\Omega, V_{DD}=50V$		15		ns
Rise time	$t_r$			10		ns
Turn-off delay time	$t_{off}$			68		ns
Fall time	$t_f$			6		ns
Total Gate Charge	$Q_G$	$I_D = 36A, V_{DD} = 80V, V_{GS} = 10V$		72		nC
Gate to Source Charge	$Q_{GS}$			10		nC
Gate to Drain Charge	$Q_{GD}$			19		nC