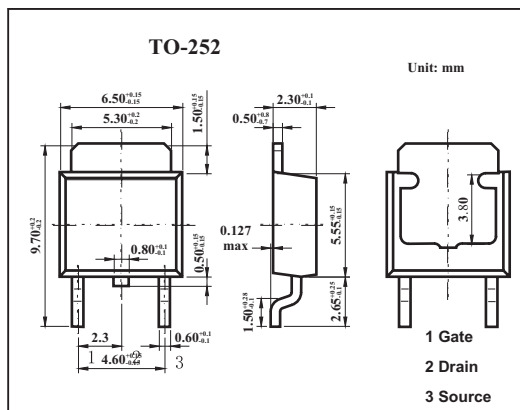


■ Features

- Super low on-state resistance:
 $R_{DS(on)1} = 125m\ \Omega$ MAX. ($V_{GS} = 10\ V, I_D = 8A$)
 $R_{DS(on)2} = 148m\ \Omega$ MAX. ($V_{GS} = 4.5\ V, I_D = 8A$)
- Low C_{iss} : $C_{iss} = 900\ pF$ 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}	± 20	V
Drain current	I_D	± 16	A
	I_{DP}^*	± 22	A
Power dissipation	P_D	$T_C=25^\circ C$	30
		$T_A=25^\circ C$	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	Test conditions	Min	Typ	Max	Unit
Drain cut-off current	I_{DSS}	$V_{DS}=100V, V_{GS}=0$			10	μA
Gate leakage current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0$			± 10	μA
Gate cutoff voltage	$V_{GS(off)}$	$V_{DS}=10V, I_D=1mA$	1.5	2.0	2.5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS}=10V, I_D=8A$	4.5	9.5		S
Drain to source on-state resistance	$R_{DS(on)1}$	$V_{GS}=10V, I_D=8A$		100	125	$m\ \Omega$
	$R_{DS(on)2}$	$V_{GS}=4.5V, I_D=8A$		110	148	$m\ \Omega$
Input capacitance	C_{iss}	$V_{DS}=10V, V_{GS}=0, f=1MHz$		900		pF
Output capacitance	C_{oss}			110		pF
Reverse transfer capacitance	C_{rss}			50		pF
Turn-on delay time	t_{on}	$I_D=8A, V_{GS(on)}=10V, R_G=0\ \Omega, V_{DD}=50V$		9.0		ns
Rise time	t_r			5.0		ns
Turn-off delay time	t_{off}			30		ns
Fall time	t_f			4.0		ns
Total Gate Charge	Q_G				20	
Gate to Source Charge	Q_{GS}	$I_D=16A, V_{DD}=80V, V_{GS}=10\ V$		3.0		nC
Gate to Drain Charge	Q_{GD}				5.0	