Composite Transistor For high speed switching Silicon P-channel MOSFET

#### **DESCRIPTION**

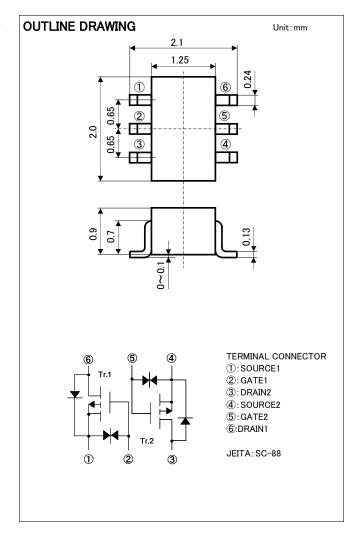
RT3J22M is a composite transistor built with two INJ0002AX chips in SC-88 package.

### **FEATURE**

- •Input impedance is high, and not necessary to consider a drive electric current.
- •Drive voltage −2.5V
- •Low on Resistance. RoN=3  $\Omega$  (TYP)
- ·High speed switching.
- •Small package for easy mounting.

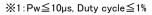
### **APPLICATION**

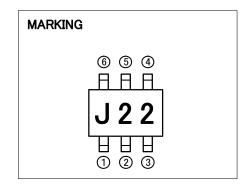
High speed switching, Analog switching



## MAXIMUM RATING (Ta=25°C) (Tr1,Tr2 Common)

SYMBOL	PARAMETER RATING		UNIT
VDSS	Drain-source voltage	-30	V
Vgss	Gate-source voltage	±8	
ĪD	Drain current(DC)	-200	mA
<b>I</b> DP	Drain current(Pulse)	-400(※1)	mA
PD	Total power dissipation	150	mW
Tch	Channel temperature	+150	သိ
Tstg	Range of Storage temperature	-55 <b>∼</b> +150	လူ

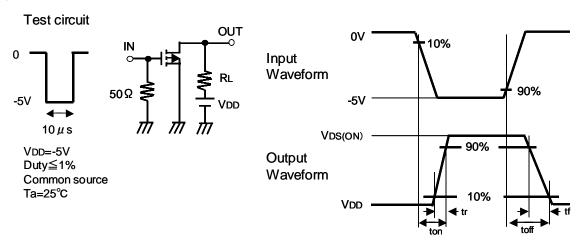




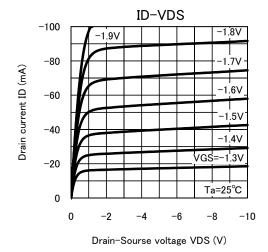
## ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1,Tr2 Common)

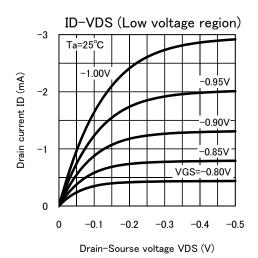
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	OINLI
V(BR)DSS	Drain-source breakdown voltage	ID=-100µA, VGS=0V	-30	_	_	٧
Igss	Gate-source leak current	Vgs=±5V, Vps=0V	_	_	±0.5	μA
IDSS	Zero gate voltage drain current	VDS=-30V, VGS=0V	_	_	-1.0	μA
$V_{th}$	Gate threshold voltage	ID=-250μA, VDS=VGS	-0.6	_	-1.2	V
Yfs	Forward transfer admittance	VDS=-10V, ID=-0.1A	_	220	_	mS
RDS(ON)	Static drain-source on-state resistance	ID=-100mA, VGS=-4.0V	_	3.0	_	Ω
Ciss	Input capacitance		_	35	_	
Coss	Output capacitance	VDS=-10V, VGS=0V, f=1MHz	_	7.3	_	pF
ton	6 7 17 17	V <sub>DD</sub> =-5V, I <sub>D</sub> =-10mA	-	14	_	ns
toff	Switching time	V <sub>G</sub> S=0~−5V	_	100	-	

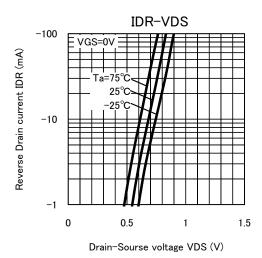
# Switching time test condition

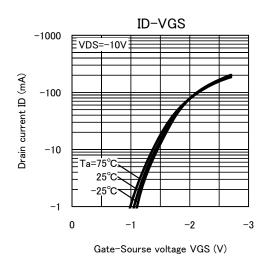


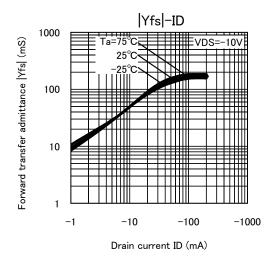
### TYPICAL CHARACTERISTICS(Tr1,Tr2 Common)

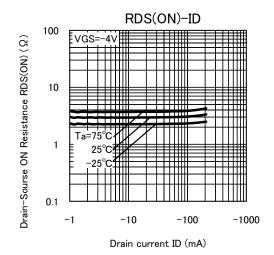


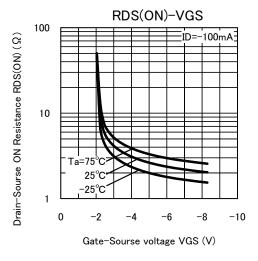


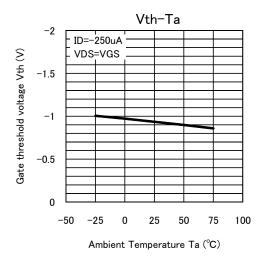


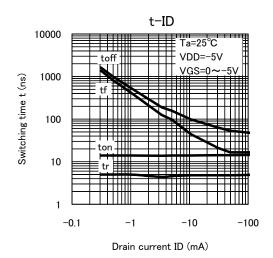


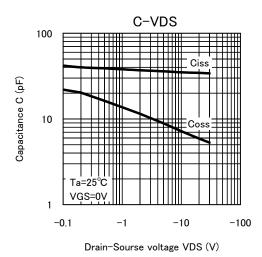














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