DESCRIPTION

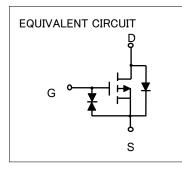
INJ0002AX is a Silicon P-channel MOSFET. This product is most suitable for low voltage use such as portable machinery , because of low voltage drive and low on resistance.

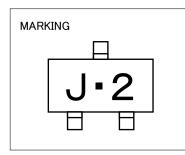
FEATURE

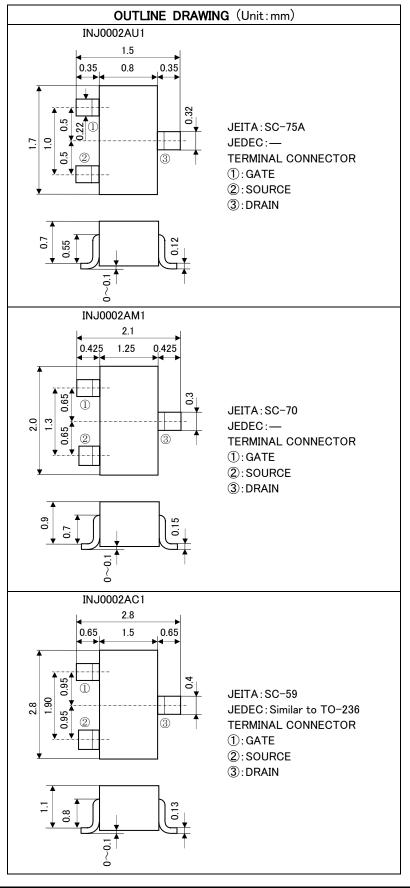
- •Input impedance is high, and not necessary to consider a drive electric current.
- •Drive voltage -2.5V
- Low on Resistance.
 RDS(ON)=3 Ω (TYP) @ID=-100mA, VGS=-4.0V
- •High speed switching.
- •Small package for easy mounting.

APPLICATION

High speed switching , Analog switching







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MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING				
		INJ0002AU1	INJ0002AM1	INJ0002AC1	UNIT	
Vdss	Drain-source voltage	-30				
Vgss	Gate-source voltage	±8				
ID	Drain current(DC)	-200				
IDP	Drain current(Pulse)	-400(※1)				
PD	Total power dissipation	150	200	mW		
Tch	Channel temperature	+150				
Tstg	Range of Storage temperature	-55~+150				

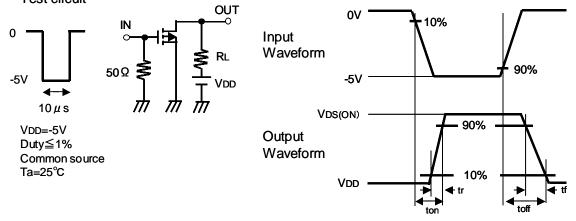
 $1: Pw \leq 10 \mu s$, Duty cycle $\leq 1\%$

ELECTRICAL CHARACTERISTICS(Ta=25°C)

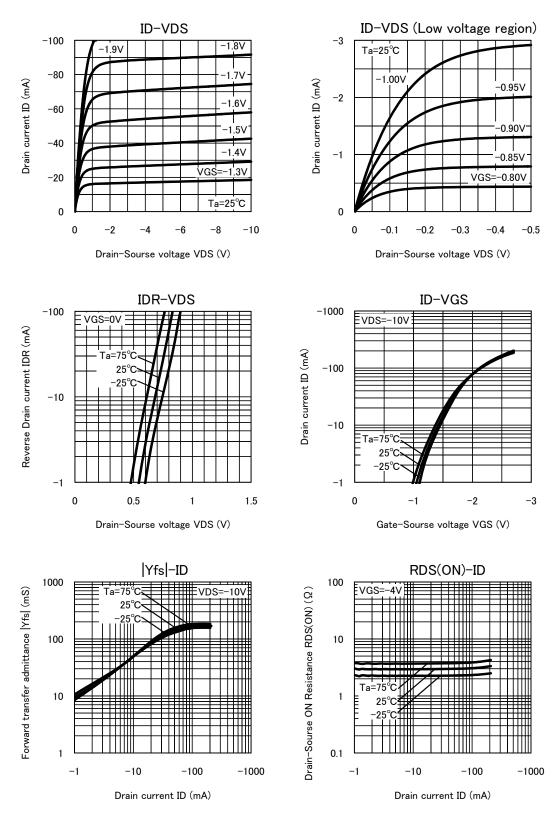
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STWBOL	FARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
V(BR)DSS	Drain-source breakdown voltage	ID=-100µA, VGs=0V	-30	-	-	V
Igss	Gate-source leak current	Vgs= \pm 5V, Vds=0V	-	-	±0.5	μA
Idss	Zero gate voltage drain current	Vds=-30V, Vgs=0V	-	-	-1.0	μA
Vth	Gate threshold 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	VDS=-10V. VGS=0V. f=1MHz	-	35	-	pF
Coss	Output capacitance	VDS = 10V, VGS = 0V, 1 = 1MHZ	-	7.3	-	
ton	Switzhing time	VDD=-5V, ID=-10mA	_	14	_	ns
toff	Switching time	Vgs=0~-5V	_	100	_	

Switching time test condition

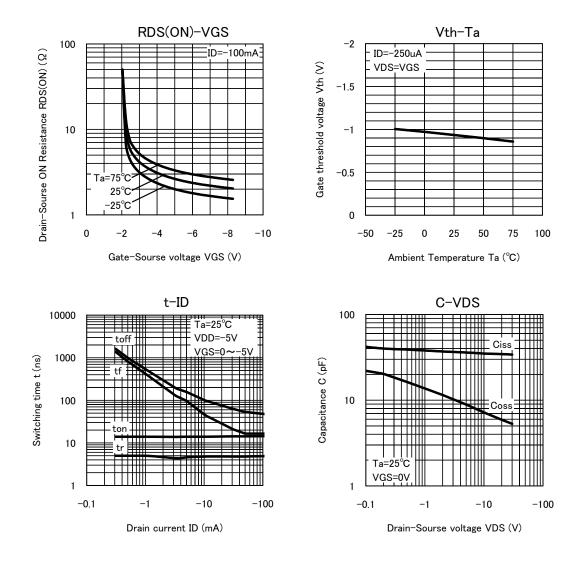
Test circuit



TYPICAL CHARACTERISTICS



High speed switching Silicon P-channel MOSFET



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