INJ0002AX SERIES

PRELIMINARY

Notice: This is not a final specification Some parametric are subject to change High speed switching Silicon P-channel MOSFET

DESCRIPTION

INJ0002AX is a Silicon P-channel MOSFET.

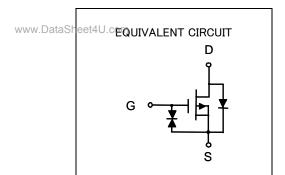
This product is most suitable for low voltage use such as portable machinery, because of low voltage drive and low on resistance.

FEATURE

- •Input impedance is high, and not necessary to consider a drive electric current.
- •Vth is low, and drive by low voltage is possible. Vth=-0.6~-1.2V
- •Low on Resistance. Ron= $3\Omega(TYP)$
- ·High speed switching.
- ·Small package for easy mounting.

APPLICATION

high speed switching, Analog switching



OUTLINE DRAWING Unit:mm INJ0002AT2 INJ0002AM1 2.1 0.425 1.25 0.425 8.0 0.2 0.2 1.3 7 0.8 JEITA, JEDEC: -JEITA: SC-70 ISAHAYA: T-USM JEDEC: -TERMINAL CONNECTOR TERMINAL CONNECTOR 1:GATE ①:GATE 2:SOURCE 2:SOURCE 3: DRAIN 3: DRAIN INJ0002AU1 INJ0002AC1 1.6 2.5 8.0 0.5 1.5 0.4 0.4 0.5 0.5 1 1.90 1.6 9 0.5 (3) $0 \sim 0.1$ $0 \sim 0.1$ JEITA: SC-75A JEITA: SC-59 JEDEC: -JEDEC: Similar to TO-236 TERMINAL CONNECTOR T TERMINAL CONNECTOR (1): GATE 1:GATE 2: SOURCE 2:SOURCE 3: DRAIN 3: DRAIN

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MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING				
		INJ0002AT2	INJ0002AU1	INJ0002AM1	INJ0002AC1	UNIT
V _{DSS}	Drain-source voltage	-30				
V_{GSS}	Gate-source voltage	±8				
Ι _D	Drain current	-200				
P _c	Total power dissipation (Ta=25°C)	125(※)	150	200		mW
Tch	Channel temperature	+125	+150			လူ
Tstg	Range of Storage temperature	−55 ~ +125	−55 ~ +150			°C

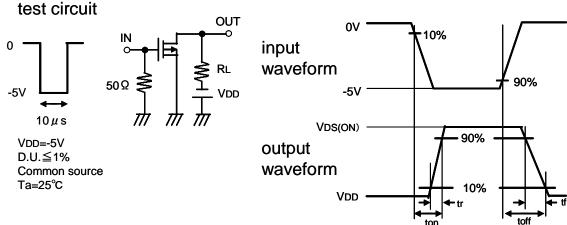
ELECTRICAL CHARACTERISTICS (Ta=25°C)

%package mounted on 9mm \times 19mm \times 1mm glass-epoxy substrate.

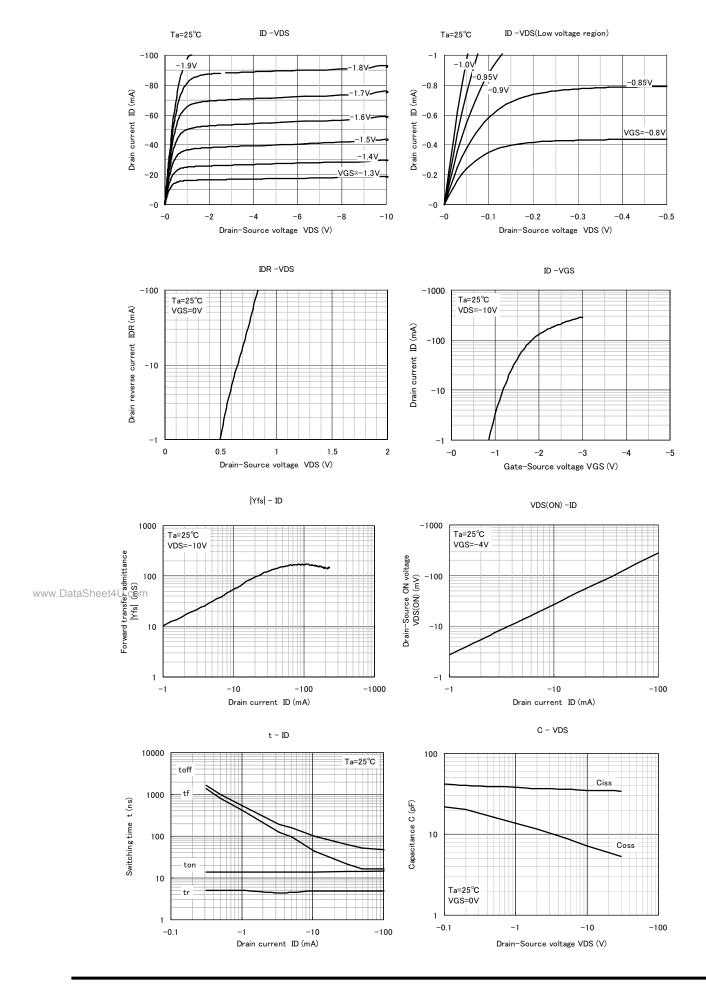
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNIT
$V_{(BR)DSS}$	Drain-source breakdown voltage	$I_{D} = -100 \mu \text{ A}, V_{GS} = 0V$	-30	_	_	V
I _{GSS}	Gate-source leak current	$V_{GS} = \pm 5V, V_{DS} = 0V$	_	_	±0.5	μΑ
I _{DSS}	Zero gate voltage drain current	V _{DS} =-30V ,V _{GS} =0V	_	_	-50	μΑ
V_{th}	Gate threshold voltage	I $_{\rm D}$ =-250 μ A, V $_{\rm DS}$ = V $_{\rm GS}$	-0.6	_	-1.2	٧
Y _{fs}	Forward transfer admittance	V _{DS} =-10V, I _D =-0.1A	_	220	-	mS
R _{DS(ON)}	Static drain-source on-state resistance	I _D =-100mA, V _{GS} =-4.0V	-	3	_	Ω
Ciss	Input capacitance	V _{DS} =-10V, V _{GS} =0V,f=1MHz	-	35	-	pF
Coss	Output capacitance	V_{DS} =-10V, V_{GS} =0V,f=1MHz	_	7.3	-	pF
ton	0 7 17 17	V_{DD} =-5V , I_{D} =-10mA	_	14	-	
toff	Switching time	V _{GS} =0~-5V	_	100	_	ns

Switching time test condition

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TYPICAL CHARACTERISTICS





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