## 查询INJ0003AC1供应商

# INJ0003AX SERIES

0.8

# PRELIMINARY

Notice: This is not a final specification

High speed switching Silicon P-channel MOSFET

#### DESCRIPTION

INJ0003AX is a Silicon P-channel MOSFET.

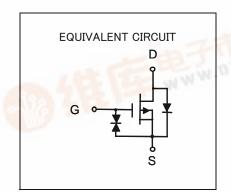
This product is most suitable for low voltage use such as portable machinery, because of low voltage drive and low on resistance.

# **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= $2\Omega(TYP)$
- ·High speed switching.
- \*Small package for easy mounting.

## **APPLICATION**

high speed switching, Analog switching



# OUTLINE DRAWING Unit:mm INJ0003AT2 INJ0003AM1 0.2 0.8 0.2 0.425 1.25 0.425



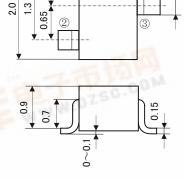
JEITA, JEDEC: — ISAHAYA: T-USM

TERMINAL CONNECTOR

1:GATE

2: SOURCE

3: DRAIN



JEITA: SC-70 JEDEC: —

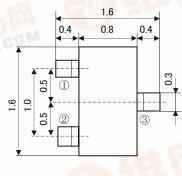
TERMINAL CONNECTOR

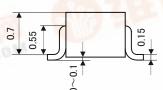
1:GATE

2:SOURCE

3:DRAIN

### INJ0003AU1





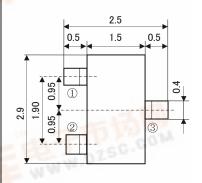
JEITA: SC-75A JEDEC: —

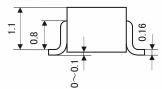
TERMINAL CONNECTOR

①:GATE ②:SOURCE

3:DRAIN

### INJ0003AC1





JEITA: SC-59 JEDEC: Similar to TO-236

T TERMINAL CONNECTOR

1:GATE

②:SOURCE

3: DRAIN



# INJ0003AX SERIES

# PRELIMINARY

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

# MAXIMUM RATING(Ta=25°C)

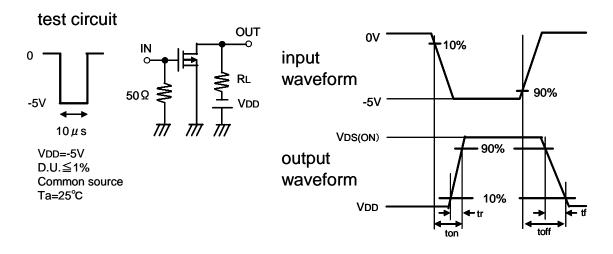
SYMBOL	PARAMETER	RATING				
	PARAMETER	INJ0003AT2	INJ0003AU1	INJ0003AM1	INJ0003AC1	UNIT
$V_{\scriptscriptstyle DSS}$	Drain-source voltage	-20				
$V_{GSS}$	Gate-source voltage	±8				
I D	Drain current	-200				
P <sub>D</sub>	Total power dissipation (Ta=25°C)	125(※)	150	200		mW
Tch	Channel temperature	+125	+150			°C
Tstg	Range of Storage temperature	−55 <b>~</b> +125	−55 <b>~</b> +150			°C

# ELECTRICAL CHARACTERISTICS (Ta=25°C)

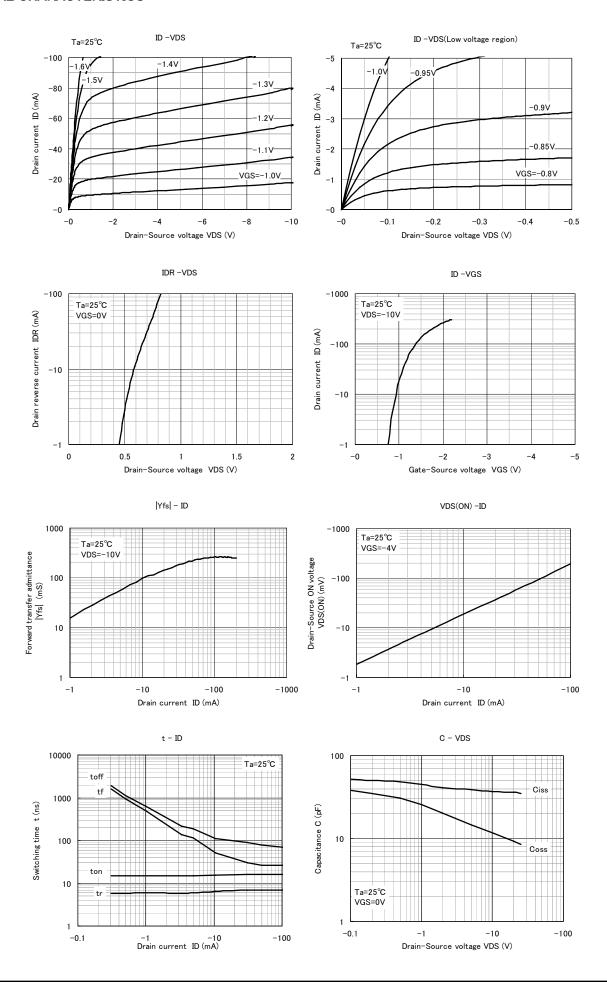
\*\*package mounted on 9mm × 19mm × 1mm glass-epoxy substrate.

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)DSS}$	Drain-source breakdown voltage	$I_{D} = -100 \mu$ A, $V_{GS} = 0V$	-20	_	-	V
I <sub>GSS</sub>	Gate-source leak current	$V_{GS}=\pm 5V, V_{DS}=0V$	_	-	±0.5	μΑ
I <sub>DSS</sub>	Zero gate voltage drain current	V <sub>DS</sub> =-20V ,V <sub>GS</sub> =0V	_	-	-50	μΑ
$V_{th}$	Gate threshold voltage	I $_{D}$ =-250 $\mu$ A, V $_{DS}$ = V $_{GS}$	-0.6	_	-1.2	٧
Y <sub>fs</sub>	Forward transfer admittance	V <sub>DS</sub> =-10V, I <sub>D</sub> =-0.1A	_	280	-	mS
R <sub>DS(ON)</sub>	Static drain-source on-state resistance	I <sub>D</sub> =-100mA, V <sub>GS</sub> =-4.0V	-	2	-	Ω
Ciss	Input capacitance	$V_{DS}$ =-10V, $V_{GS}$ =0V,f=1MHz	-	37	-	pF
Coss	Output capacitance	V <sub>DS</sub> =-10V, V <sub>GS</sub> =0V,f=1MHz	_	12	-	pF
ton	Switching time	$V_{DD}$ =-5 $V$ , $I_{D}$ =-10mA	_	16	-	
toff	- Switching time	V <sub>GS</sub> =0~-5V	_	110	-	ns

# Switching time test condition



# TYPICAL CHARACTERISTICS





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