INJ0003AX SERIES

PRELIMINARY

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

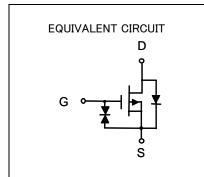
•Low on Resistance. Ron= $2\Omega(TYP)$

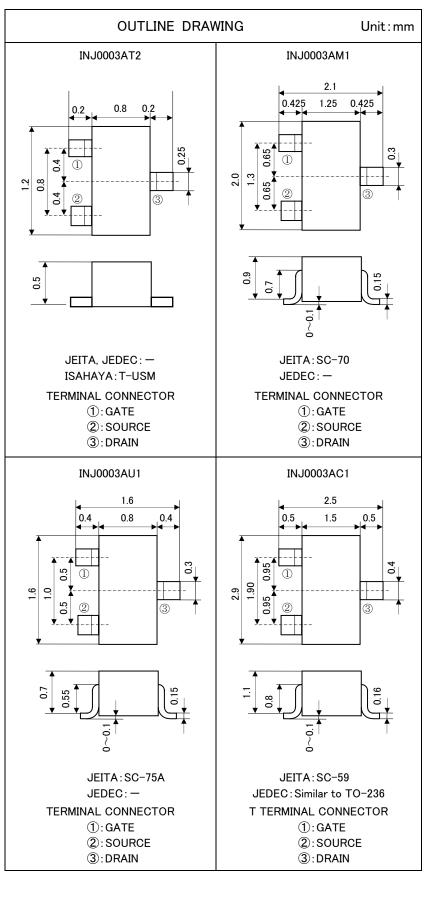
•High speed switching.

•Small package for easy mounting.

APPLICATION

high speed switching , Analog switching





ISAHAYA ELECTRONICS CORPORATION

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)

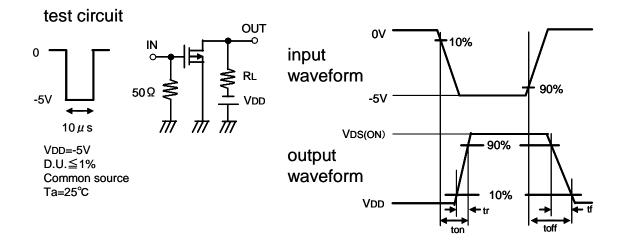
SYMBOL	PARAMETER	RATING				
	FARAMETER	INJ0003AT2	INJ0003AU1	INJ0003AM1	INJ0003AC1	UNIT
V _{DSS}	Drain-source voltage	-20				
V _{GSS}	Gate-source voltage	± 8				
I _D	Drain current	-200				
P _D	Total power dissipation (Ta=25°C)	125(※)	150	200		mW
Tch	Channel temperature	+125	+150			
Tstg	Range of Storage temperature	-55~+125	-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

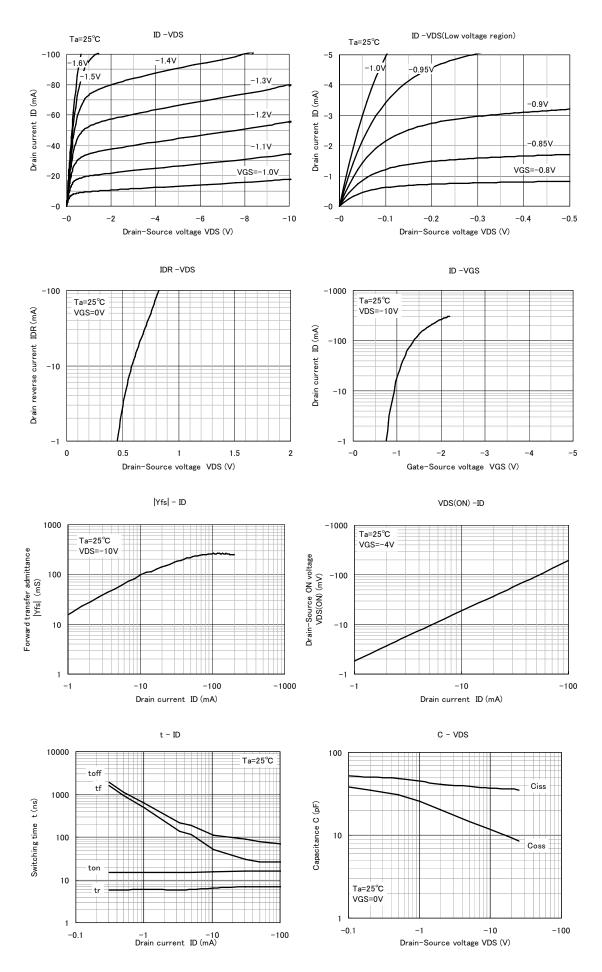
 $\label{eq:package mounted on 9mm \times 19mm \times 1mm glass-epoxy substrate.}$ T I IMIT Τ

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

Switching time test condition



TYPICAL CHARACTERISTICS



ISAHAYA ELECTRONICS CORPORATION



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Keep safety first in your circuit designs!

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