INJ0203AC1

High Speed Switching Silicon P-channel MOSFET

DESCRIPTION

INJ0203AC1 is a Silicon P-channel MOSFET.

This product is most suitable for 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)= $100m \Omega$ (TYP).
- ·High speed switching.
- •Small package for easy mounting.

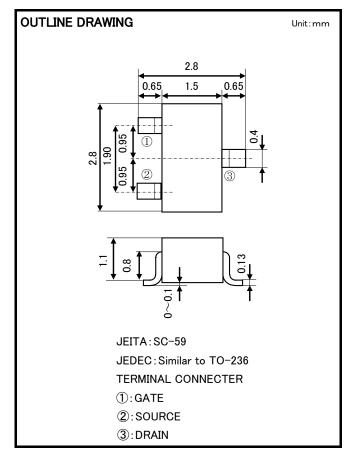
APPLICATION

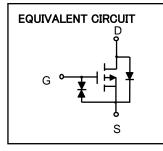
Switching

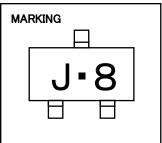
MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Rating	Unit	
VDSS	Drain-Source Voltage -20		٧	
Vgss	Gate-Source Voltage	-10	٧	
ĪD	Drain Current(DC)	-2	Α	
I DP	Drain current(Pulse) ※1	-4	Α	
PD	Total Power Dissipation	200	mW	
Tch	Channel Temperature +150		°C	
Tstg	Storage Temperature	-55∼+150	°C	

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



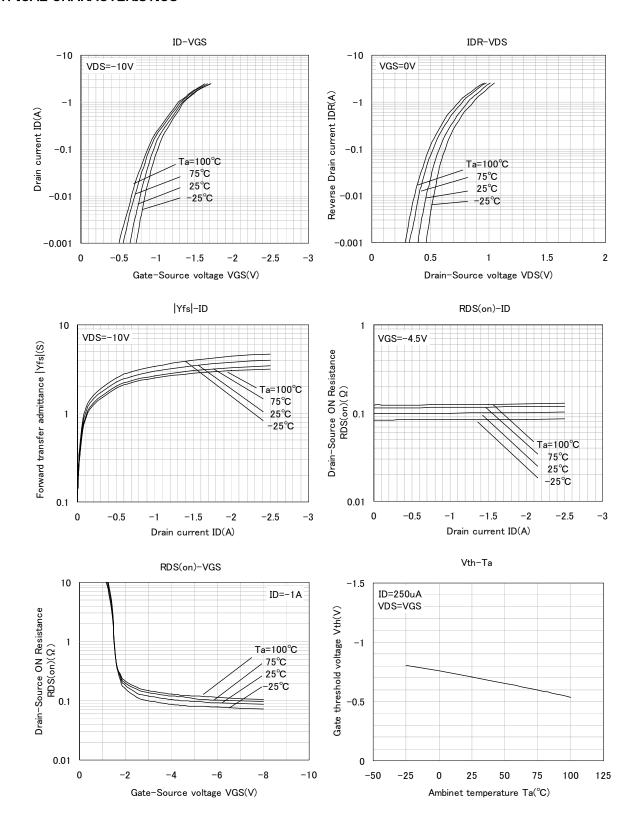




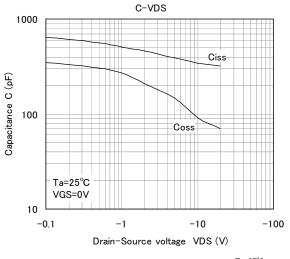
ELECTRICAL CHARACTERISTICS (Ta=25°C)

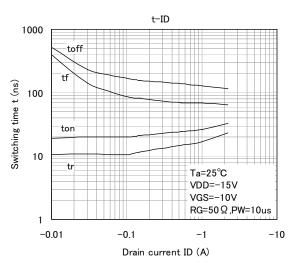
Parameter	Symbol	Test Condition	Limit			Unit
Parameter			MIN	TYP	MAX	Unit
Drain-Source Breakdown Voltage	V(BR)DSS	$I_{D} = -100 \mu$ A, $V_{GS} = 0V$	-20	_	_	٧
Gate-Source Leak current	Igss	$V_{GS}=\pm 10V$, $I_{DS}=0A$	-	-	±10	μΑ
Zero Gate Voltage Drain Current	IDSS	V _{DS} =-20V ,V _{GS} =0V	ı	-	-10	μΑ
Gate Threshold Voltage	V_{th}	$I_D = -250 \mu$ A, $V_{DS} = V_{GS}$	-0.4	-	-1.2	٧
Forward Transfer Admittance	Yfs	V_{DS} =-10V, I_{D} =-1A	-	3.0	-	S
Static Drain-Source On-State Resistance	RDS(ON)	I _D =-1A, V _{GS} =-4.5V	-	100	_	mΩ
Input Capacitance	Ciss	\\ - 10\\ \\ -0\\ 6-1M	ı	340	-	pF
Output Capacitance	Coss	V_{DS} =-10V, V_{GS} =0V, f=1MHz		90	-	pF
Switching Time	ton	V _{DD} =-15V, I _D =-1A	_	30	_	ns
Switching Time	toff	V _{GS} =0 ~ −10V	-	130	-	ns

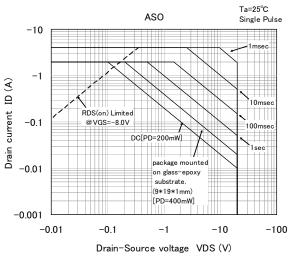
TYPICAL CHARACTERISTICS

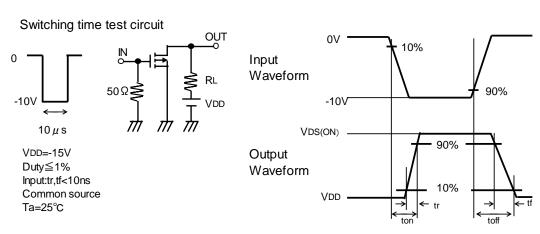


TYPICAL CHARACTERISTICS











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