Notice : This is not a final specification Some parametric are subject to change.

INJ0212CC1

High Speed Switching Silicon P-channel MOSFET

DESCRIPTION

INJ0212CC1 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.

- •High drain current ID=-2.9A
- •Drive voltage -4V
- •Low on Resistance. RDS(ON)=120mΩtyp(@VGS=-4.5V)

 $RDS(ON)=80m \Omega typ(@VGS=-10V)$

•High speed switching.

APPLICATION

High speed switching, Analog switching

MAXIMUM RATINGS(Ta=25°C)

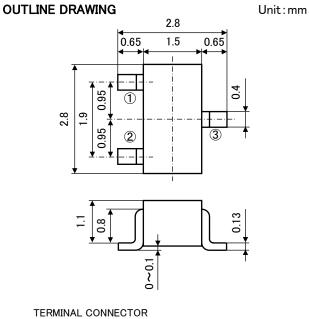
Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	Vdss	-30	V	
Gate-Source Voltage	Vgss	±20	V	
Drain Current(DC)	ID	-2.9	Α	
Drain Current(Pulse) (%1)	Īdp	-6	Α	
Total Power Dissipation (※2)	PD	0.9	W	
Channel Temperature	Tch	+150	°C	
Storage Temperature	Tstg	-55 ~ +150	°C	

%1 Pw≦10ms , Duty cycle≦1%

X2 package mounted on glass-epoxy substrate.

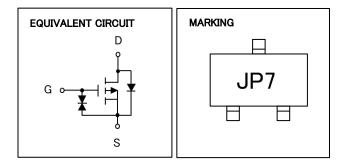
(39mm × 39mm × 1.6mm,Cu pad 1500mm²)

ELECTRICAL CHARACTERISTICS (Ta=25°C)



(1):GATE (2): SOURCE 3:DRAIN

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



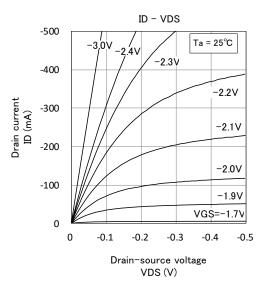
Parameter	Symbol	Test Condition	Limit			11
			MIN	TYP	MAX	Unit
Drain-Source Breakdown Voltage	V(BR)DSS	I _D =-250µA, V _{GS} =0V	-30	-	-	V
Gate-Source Leak Current	Igss	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	±10	μA
Zero Gate Voltage Drain Current	Idss	V _{DS} =-30V, V _{GS} =0V	-	-	-1.0	
Gate Threshold Voltage	Vth	I_D =-250 μ A, V_{DS} = V_{GS}	-1.0	-	-2.5	V
Static Drain-Source On-State Resistance	Rds(on)	I _D =-2.9A, V _{GS} =-4.5V	-	120	156	mΩ
		I _D =-2.9A, V _{GS} =-10V	-	80	105	
Input Capacitance	Ciss		-	535	-	pF
Output Capacitance	Coss	V _{DS} =-10V, V _{GS} =0V, f=1MHz	-	100	-	
Feedback Capacitance	Crss]	-	75	-	
Switching Time	ton	V_{DD} =-20V, I _D =-200mA, V _{GS} =-5V	-	30	-	ns
	toff		-	110	-	

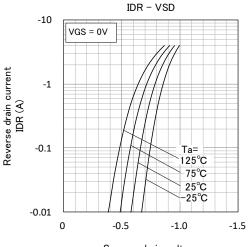
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INJ0212CC1

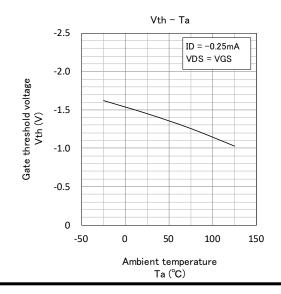
High Speed Switching Silicon P-channel MOSFET

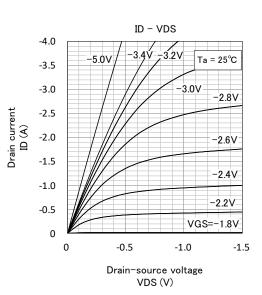
TYPICAL CHARACTERISTICS

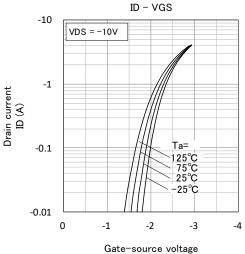




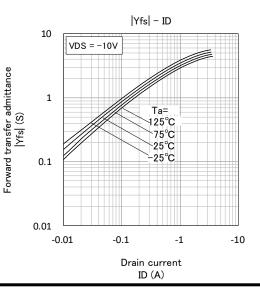








VGS (V)



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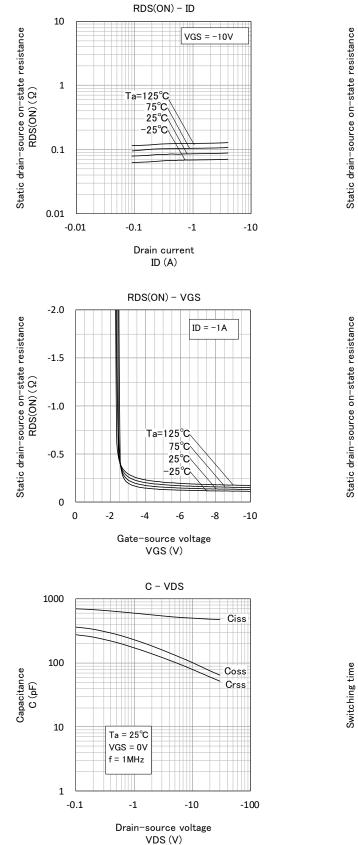
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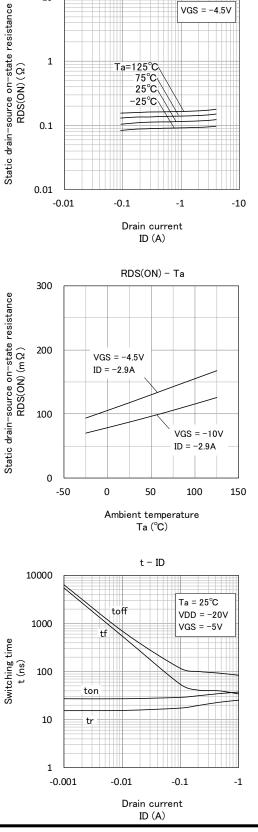
High Speed Switching Silicon P-channel MOSFET

VGS = -4.5V

RDS(ON) - ID

10



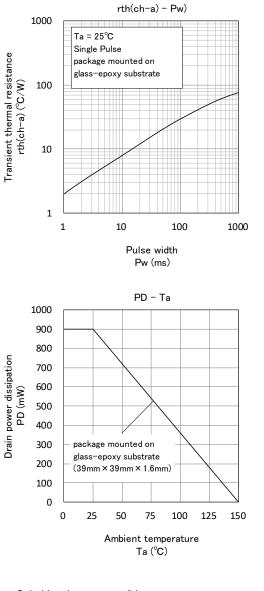


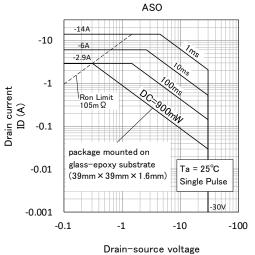
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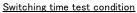
INJ0212CC1

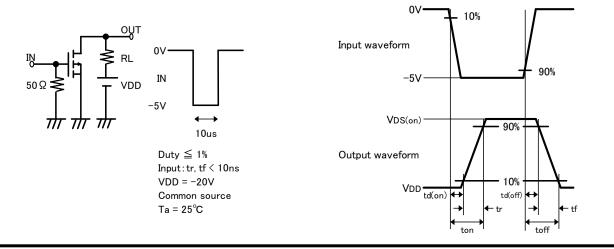
High Speed Switching Silicon P-channel MOSFET











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