Old Company Name in Catalogs and Other Documents

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April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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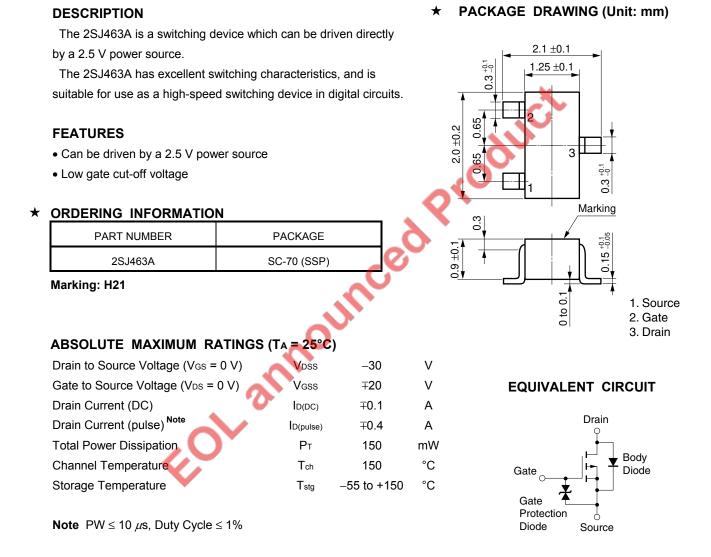
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RENESAS

MOS FIELD EFFECT TRANSISTOR 2SJ463A

P-CHANNEL MOS FIELD EFFECT TRANSISTOR FOR HIGH SPEED SWITCHING



Remark The diode connected between the gate and source of the transistor serves as a protector against ESD. When this device actually used, an additional protection circuit is externally required if a voltage exceeding the rated voltage may be applied to this device.

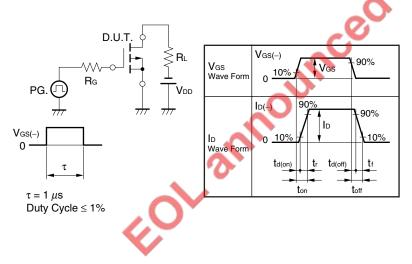
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The mark \star shows major revised points.

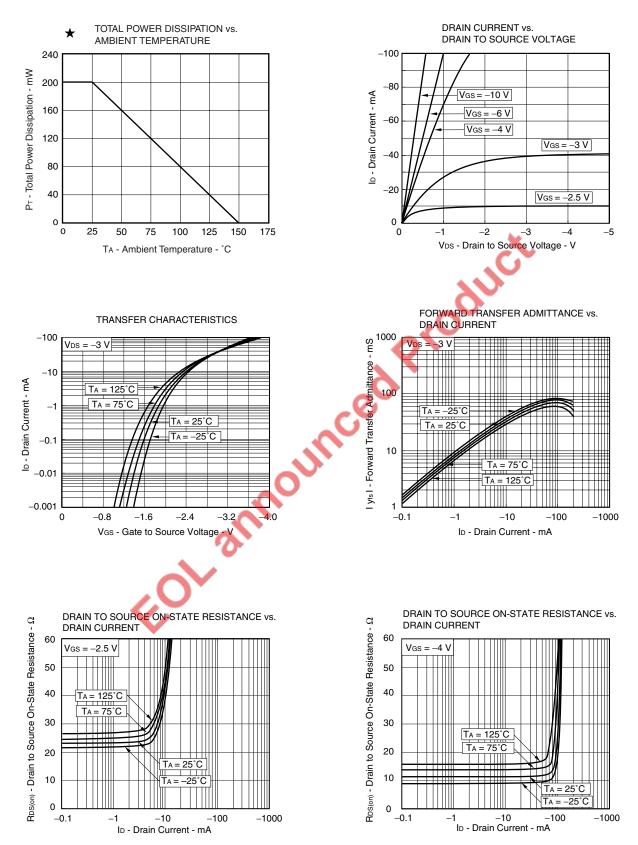
ELECTRICAL CHARACTERISTICS (T_A = 25°C)

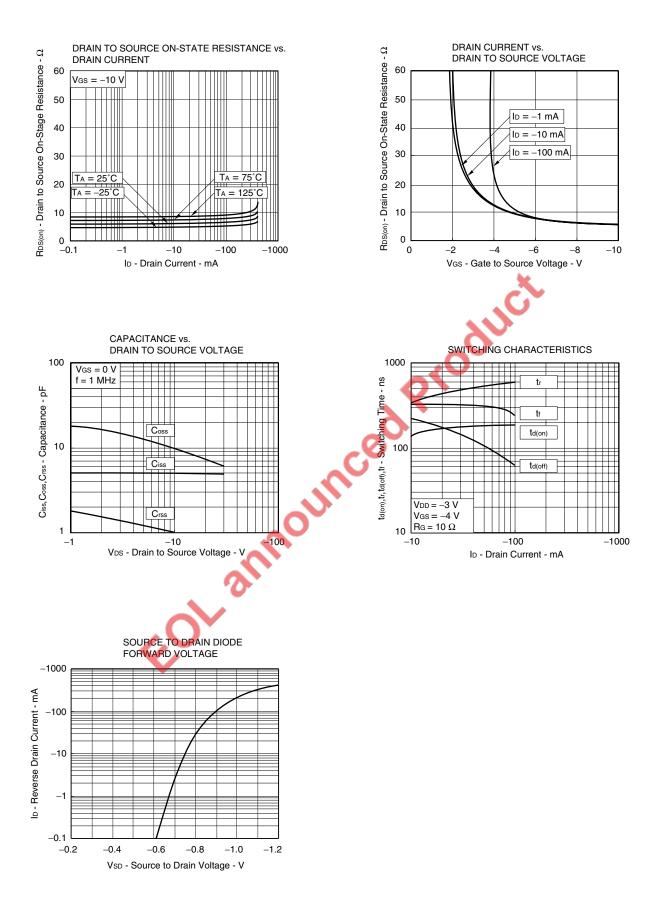
CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Zero Gate Voltage Drain Current	IDSS	V _{DS} = -30 V, V _{GS} = 0 V			-1	μA
Gate Leakage Current	lgss	V _{GS} = ∓20 V, V _{DS} = 0 V			∓10	μA
Gate Cut-off Voltage	V _{GS(off)}	$V_{DS} = -3 V$, ID = -10 μA	-1.0	-1.4	-1.7	V
Forward Transfer Admittance	y _{fs}	V _{DS} = -3 V, I _D = -10 mA	20			mS
Drain to Source On-state Resistance	RDS(on)1	V _{GS} = −2.5 V, I _D = −1 mA		23	60	Ω
	RDS(on)2	V _{GS} = -4 V, I _D = -10 mA		11	23	Ω
	RDS(on)3	$V_{GS} = -10 \text{ V}, \text{ I}_{D} = -10 \text{ mA}$		6	13	Ω
Input Capacitance	Ciss	V _{DS} = -3 V		5		pF
Output Capacitance	Coss	V _{GS} = 0 V		15		pF
Reverse Transfer Capacitance	Crss	f = 1 MHz	*	1.3		pF
Turn-on Delay Time	td(on)	$V_{DD} = -3 V$, $I_D = -10 mA$	S.	140		ns
Rise Time	tr	V _{GS} = -4 V	5	330		ns
Turn-off Delay Time	td(off)	R _G = 10 Ω, RL = 300 Ω		220		ns
Fall Time	tr			320		ns

★ TEST CIRCUIT SWITCHING TIME



TYPICAL CHARACTERISTICS (T_A = 25°C)





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