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Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

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

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RENESAS

2SK2926(L), 2SK2926(S)

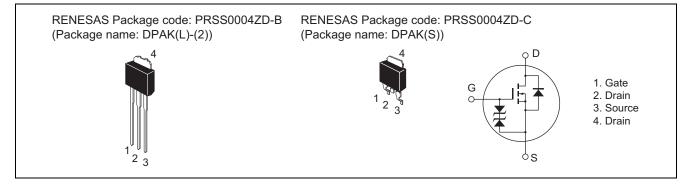
Silicon N Channel MOS FET High Speed Power Switching

> REJ03G1040-0200 (Previous: ADE-208-535) Rev.2.00 Sep 07, 2005

Features

- Low on-resistance $R_{DS(on)} = 0.042 \ \Omega$ typ.
- 4 V gate drive devices.
- High speed switching

Outline





Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Drain to source voltage	V _{DSS}	60	V
Gate to source voltage	V _{GSS}	±20	V
Drain current	I _D	15	A
Drain peak current	I _{D(pulse)} * ¹	60	A
Body to drain diode reverse drain current	I _{DR}	15	А
Avalanche current	I_{AP}^{*3}	15	А
Avalanche energy	E _{AR} * ³	19	mJ
Channel dissipation	Pch* ²	25	W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	–55 to +150	°C

Notes: 1. PW \leq 10 μ s, duty cycle \leq 1 %

2. Value at Ta = 25°C

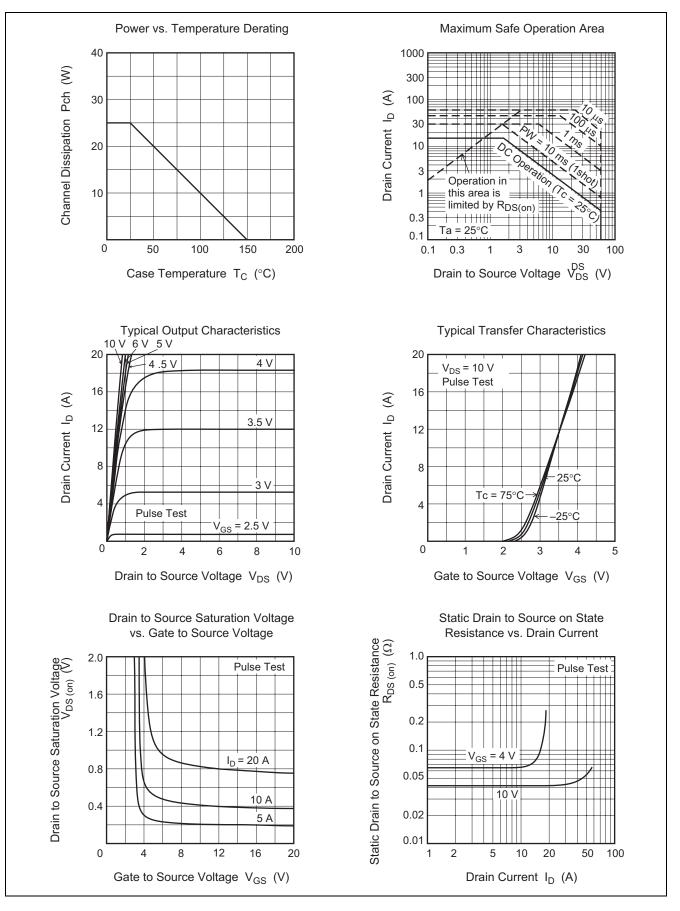
3. Value at Ta = 25° C, Rg $\geq 50 \Omega$

Electrical Characteristics

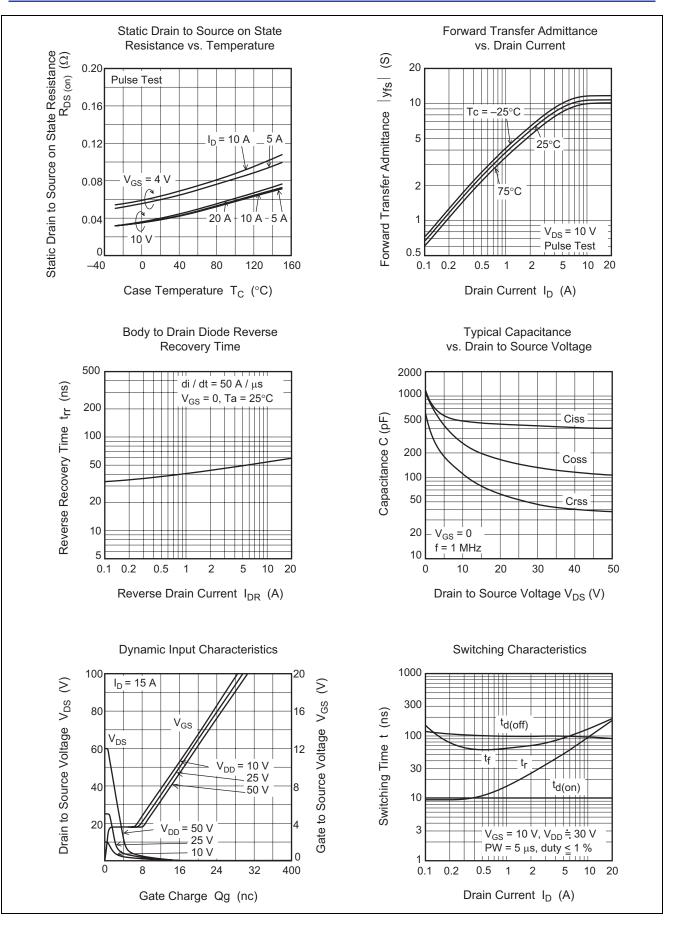
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Drain to source breakdown voltage	V _{(BR)DSS}	60		—	V	$I_D = 10 \text{ mA}, V_{GS} = 0$
Gate to source breakdown voltage	V _{(BR)GSS}	±20		—	V	$I_{G} = \pm 100 \ \mu A, \ V_{DS} = 0$
Zero gate voltage drain current	I _{DSS}	_		10	μΑ	$V_{DS} = 60 \text{ V}, V_{GS} = 0$
Gate to source leak current	I _{GSS}	_		±10	μΑ	$V_{GS} = \pm 16 \text{ V}, V_{DS} = 0$
Gate to source cutoff voltage	V _{GS(off)}	1.5		2.5	V	$I_D = 1 \text{ mA}, V_{DS} = 10 \text{ V}$
Static drain to source on state	R _{DS(on)}	_	0.042	0.055	Ω	$I_D = 8 \text{ A}, V_{GS} = 10 \text{ V}^{*4}$
resistance	R _{DS(on)}		0.065	0.11	Ω	$I_D = 8 A, V_{GS} = 4 V^{*4}$
Forward transfer admittance	y _{fs}	7	11	_	S	$I_D = 8 \text{ A}, V_{DS} = 10 \text{ V}^{*4}$
Input capacitance	Ciss		500	_	pF	$V_{DS} = 10 \text{ V}, \text{ V}_{GS} = 0,$ f = 1 MHz
Output capacitance	Coss		260	_	pF	
Reverse transfer capacitance	Crss		110	_	pF	
Turn-on delay time	t _{d(on)}		10	_	ns	V_{GS} = 10 V, I _D = 8 A, R _L = 3.75 Ω
Rise time	tr		80	_	ns	
Turn-off delay time	t _{d(off)}		100	_	ns	
Fall time	t _f	_	110	_	ns	
Body to drain diode forward voltage	V_{DF}	_	1.0	—	V	$I_F = 15 \text{ A}, V_{GS} = 0$
Body to drain diode reverse recovery	t _{rr}	_	55		ns	$I_F = 15 \text{ A}, V_{GS} = 0,$
time						di _F / dt = 50 A/µs

Note: 4. Pulse test

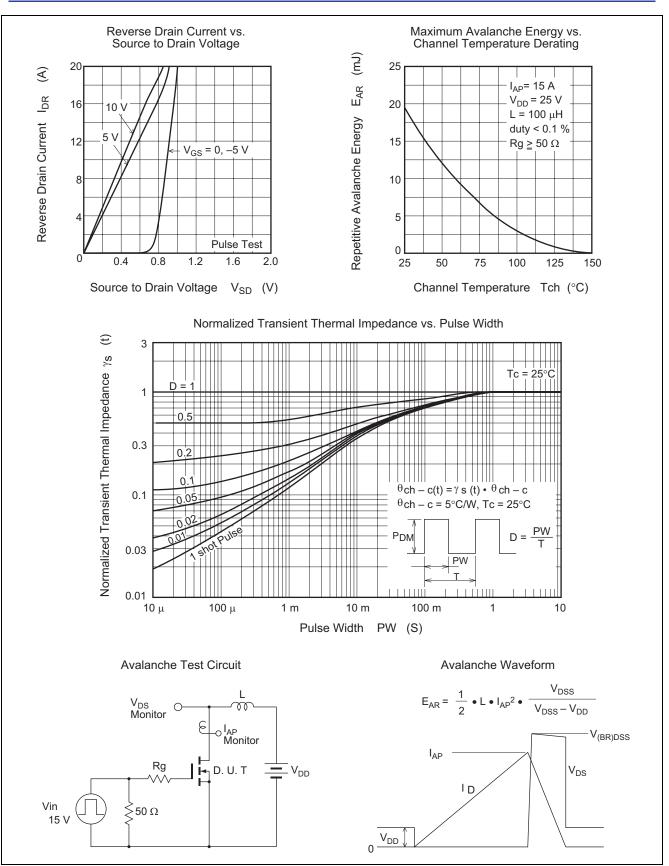
Main Characteristics



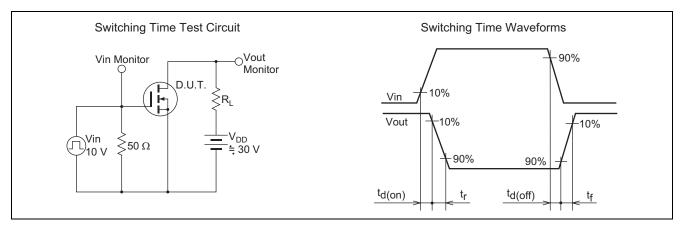






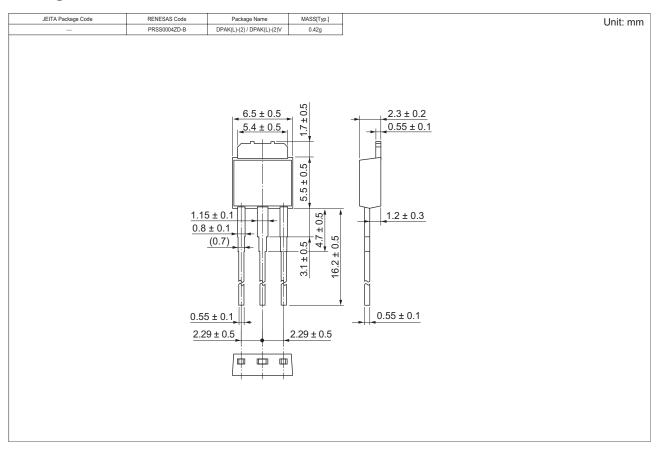


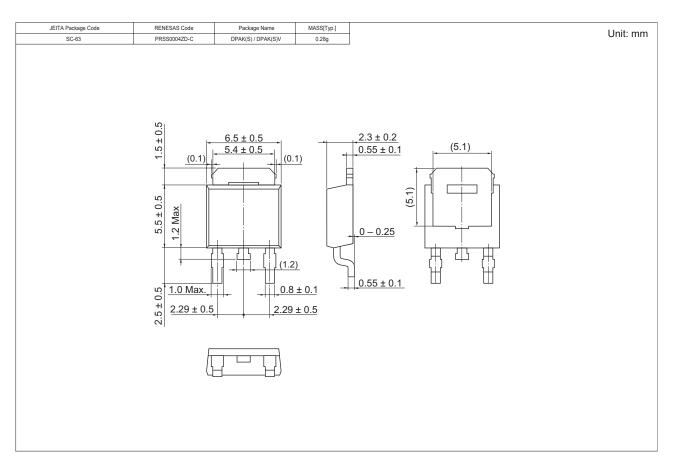






Package Dimensions







Ordering Information

Part Name	Quantity	Shipping Container
2SK2926L-E	3200 pcs	Box (Sack)
2SK2926STL-E	3000 pcs	Taping

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