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April 1st, 2010 Renesas Electronics Corporation

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

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2SK1341 Silicon N Channel MOS FET

REJ03G0938-0200 (Previous: ADE-208-1278) Rev.2.00 Sep 07, 2005

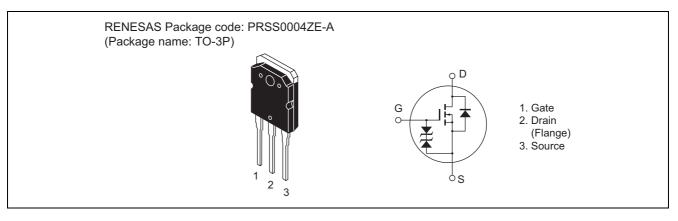
Application

High speed power switching

Features

- Low on-resistance
- High speed switching
- Low drive current
- No secondary breakdown
- Suitable for switching regulator and DC-DC converter

Outline





Absolute Maximum Ratings

$(Ta = 25^{\circ}C)$
Unit

Item	Symbol	Ratings	Unit
Drain to source voltage	V _{DSS}	900	V
Gate to source voltage	V _{GSS}	±30	V
Drain current	ID	6	A
Drain peak current	I _{D(pulse)} *1	15	A
Body to drain diode reverse drain current	I _{DR}	6	A
Channel dissipation	Pch∗ ₂	100	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 $T_C = 25^{\circ}C$

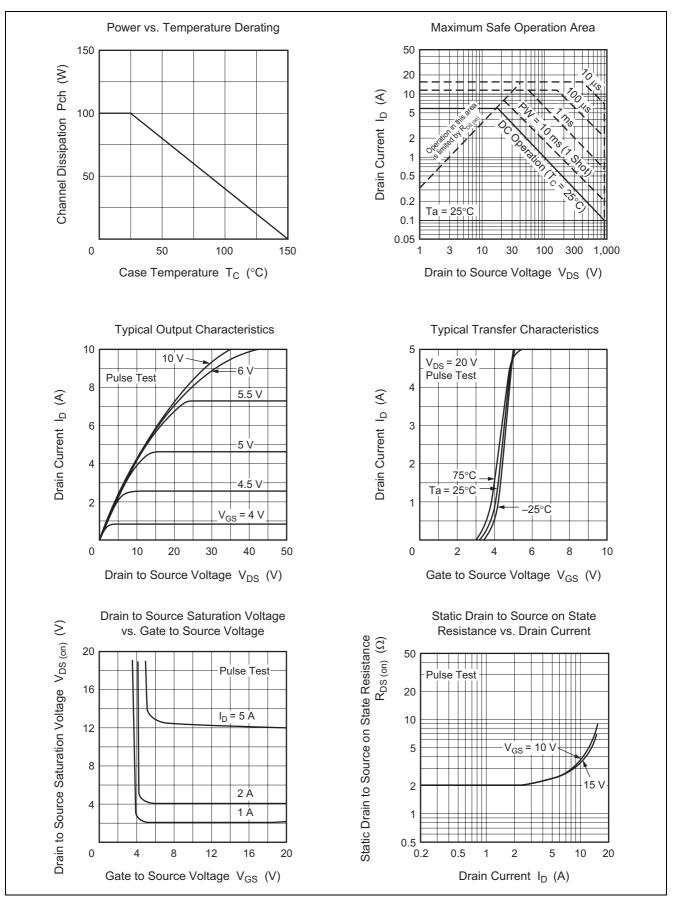
Electrical Characteristics

						(Ta = 25°C)
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Drain to source breakdown voltage	V _{(BR)DSS}	900	_	_	V	$I_D = 10 \text{ mA}, V_{GS} = 0$
Gate to source breakdown voltage	V _{(BR)GSS}	±30	—	—	V	$I_G = \pm 100 \ \mu A, \ V_{DS} = 0$
Gate to source leak current	I _{GSS}	_	_	±10	μA	$V_{GS} = \pm 25 \text{ V}, V_{DS} = 0$
Zero gate voltage drain current	I _{DSS}		_	250	μA	$V_{DS} = 720 V, V_{GS} = 0$
Gate to source cutoff voltage	V _{GS(off)}	2.0	_	3.0	V	$I_D = 1 \text{ mA}, V_{DS} = 10 \text{ V}$
Static drain to source on state	R _{DS(on)}	_	2.0	3.0	Ω	$I_D = 3 \text{ A}, V_{GS} = 10 \text{ V}^{*3}$
resistance						
Forward transfer admittance	y _{fs}	2.3	3.7	—	S	$I_D = 3 \text{ A}, V_{DS} = 20 \text{ V}^{*3}$
Input capacitance	Ciss	_	980	—	pF	$V_{DS} = 10 V, V_{GS} = 0,$
Output capacitance	Coss	_	400	_	pF	f = 1 MHz
Reverse transfer capacitance	Crss	_	195		pF	
Turn-on delay time	t _{d(on)}		20		ns	$I_D = 3 \text{ A}, V_{GS} = 10 \text{ V},$
Rise time	tr		80		ns	R _L = 10 Ω
Turn-off delay time	t _{d(off)}		125	_	ns	
Fall time	t _f		100	_	ns	
Body to drain diode forward voltage	V _{DF}	_	0.9	—	V	$I_F = 6 A, V_{GS} = 0$
Body to drain diode reverse recovery	t _{rr}	—	1000	—	ns	$I_F = 6 A, V_{GS} = 0,$
time						di _F /dt = 100 A/µs

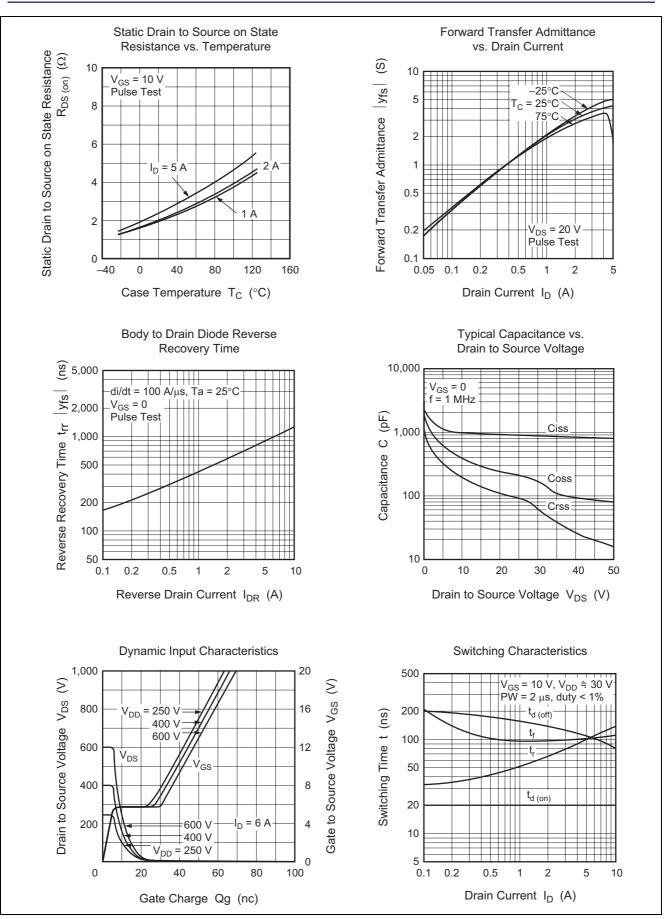
Note: 3. Pulse test



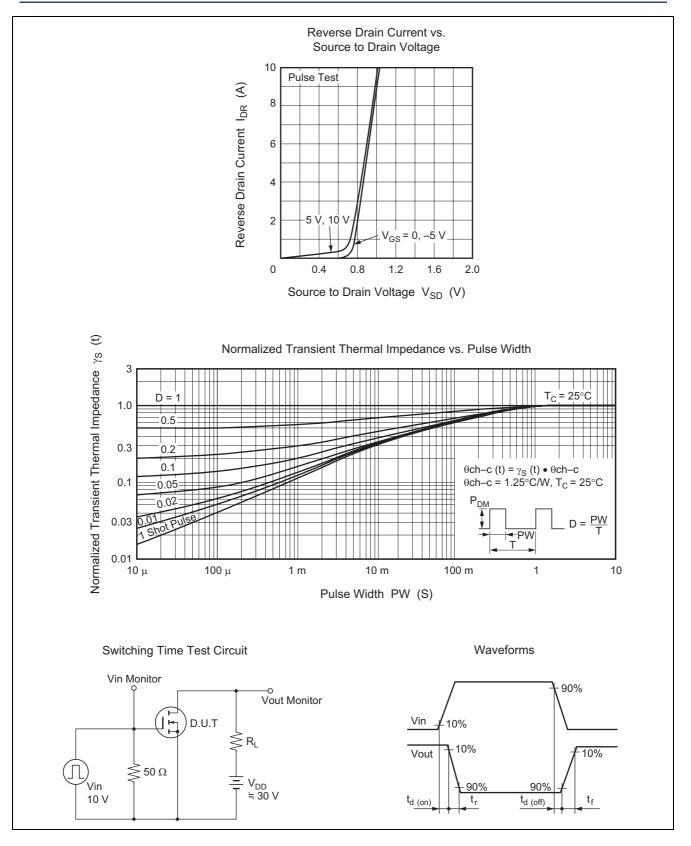
Main Characteristics





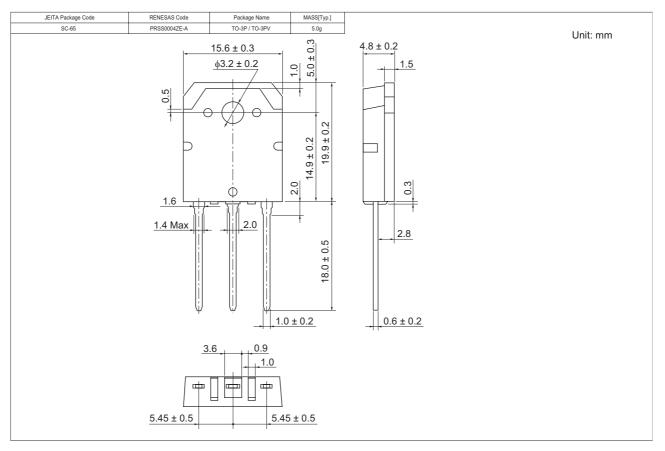








Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container			
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