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April 1st, 2010 Renesas Electronics Corporation

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

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2SK1340

Silicon N Channel MOS FET

REJ03G0937-0300 Rev.3.00 May 15, 2006

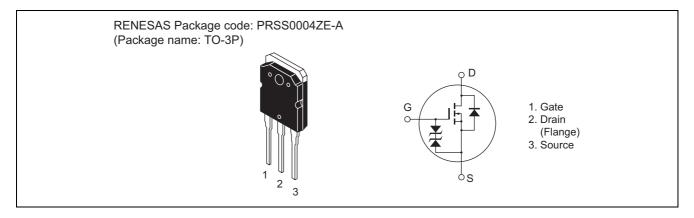
Application

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

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

Item	Symbol	Ratings	Unit
Drain to source voltage	V_{DSS}	900	V
Gate to source voltage	V_{GSS}	±30	V
Drain current	I _D	5	Α
Drain peak current	I _{D(pulse)} *1	12	Α
Body to drain diode reverse drain current	I _{DR}	5	Α
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 $T_C = 25^{\circ}C$

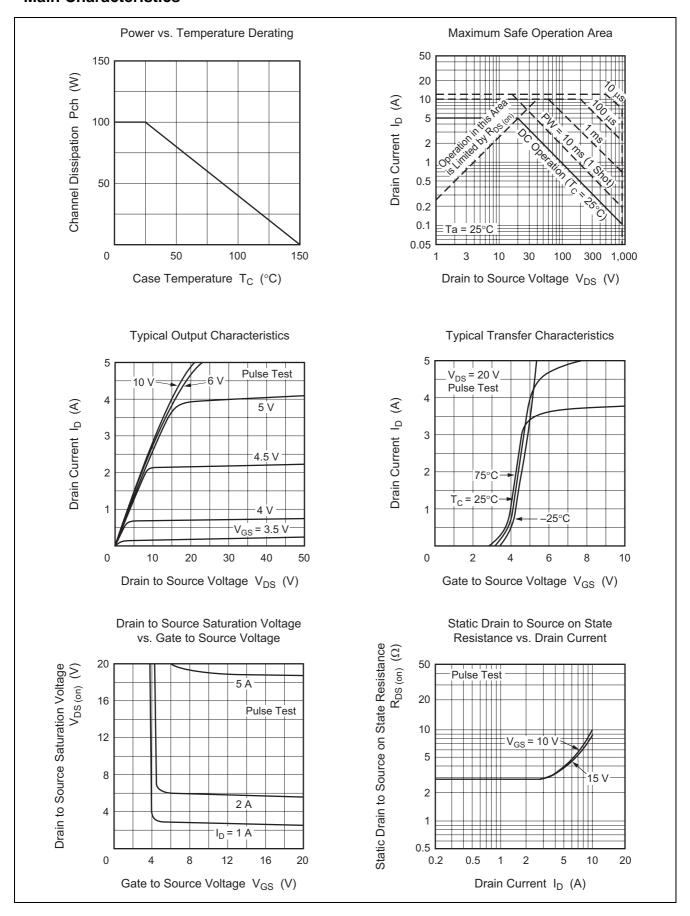
Electrical Characteristics

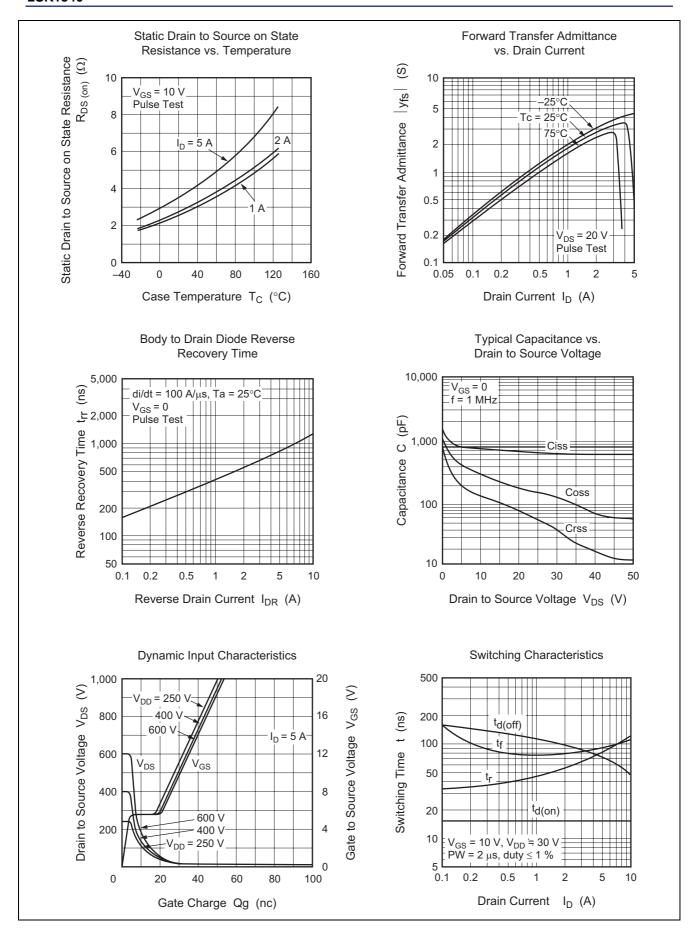
 $(Ta = 25^{\circ}C)$

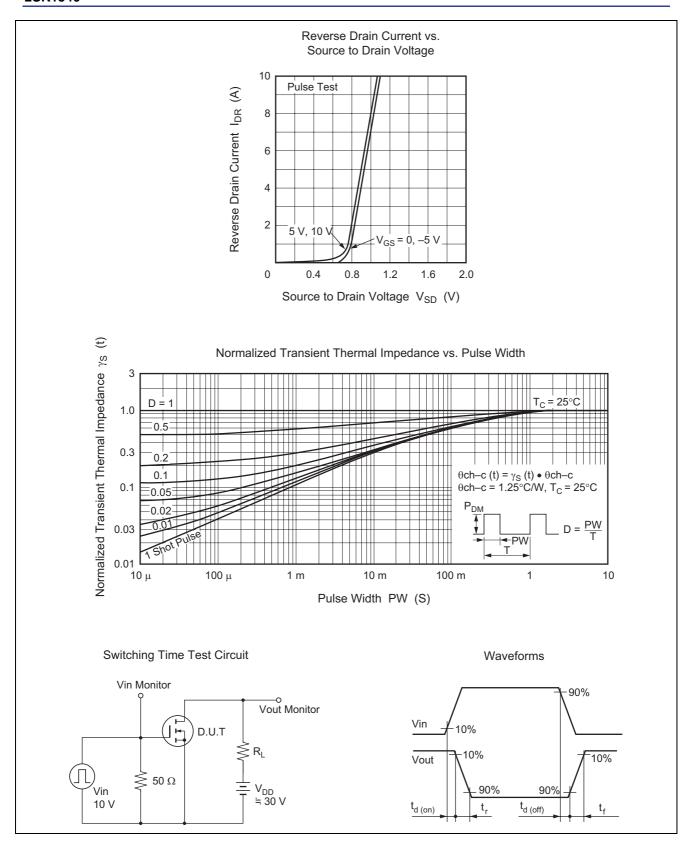
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Drain to source breakdown voltage	$V_{(BR)DSS}$	900	_	_	V	$I_D = 10 \text{ mA}, V_{GS} = 0$
Gate to source breakdown voltage	$V_{(BR)GSS}$	±30	_	_	V	$I_G = \pm 100 \ \mu A, \ V_{DS} = 0$
Gate to source leak current	I_{GSS}	_	_	±10	μΑ	$V_{GS} = \pm 25 \text{ V}, V_{DS} = 0$
Zero gate voltage drain current	I _{DSS}	_	_	250	μΑ	V _{DS} = 720 V, V _{GS} = 0
Gate to source cutoff voltage	V _{GS(off)}	2.0	_	3.0	V	I _D = 1 mA, V _{DS} = 10 V
Static drain to source on state	R _{DS(on)}	_	3.0	4.0	Ω	$I_D = 3 \text{ A}, V_{GS} = 10 \text{ V}^{*3}$
resistance						
Forward transfer admittance	y _{fs}	2.0	3.2	_	S	$I_D = 3 \text{ A}, V_{DS} = 20 \text{ V}^{*3}$
Input capacitance	Ciss	_	740	_	pF	$V_{DS} = 10 \text{ V}, V_{GS} = 0,$
Output capacitance	Coss	_	305	_	pF	f = 1 MHz
Reverse transfer capacitance	Crss	_	150	_	pF	
Turn-on delay time	t _{d(on)}	_	15	_	ns	$I_D = 3 \text{ A}, V_{GS} = 10 \text{ V},$
Rise time	t _r	_	70	_	ns	$R_L = 10 \Omega$
Turn-off delay time	t _{d(off)}	_	90	_	ns	
Fall time	t _f	_	90	_	ns	
Body to drain diode forward voltage	V_{DF}	_	0.9	_	V	$I_F = 5 \text{ A}, V_{GS} = 0$
Body to drain diode reverse recovery	t _{rr}	_	900	_	ns	$I_F = 5 A, V_{GS} = 0,$
time						$di_F/dt = 100 A/\mu s$

Note: 3. Pulse test

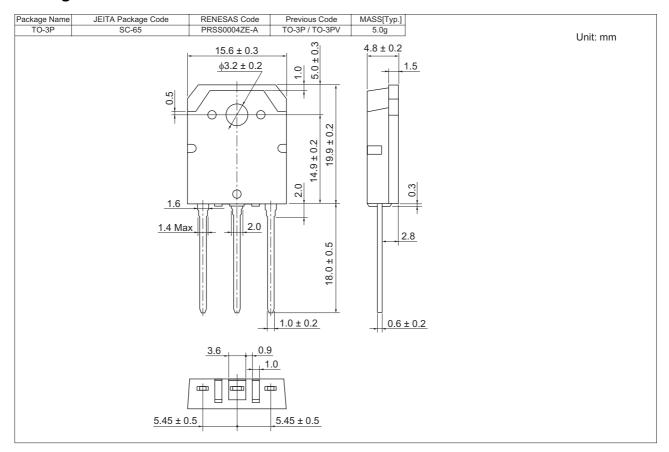
Main Characteristics







Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SK1340-E	360 pcs	Box (Tube)

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