Old Company Name in Catalogs and Other Documents

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2SK2726

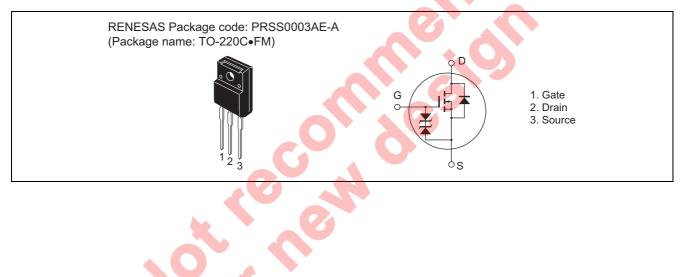
Silicon N Channel MOS FET High Speed Power Switching

> REJ03G1024-0400 (Previous: ADE-208-453B) Rev.4.00 Sep 07, 2005

Features

- Low on-resistance
- High speed switching
- Low drive current
- No secondary breakdown
- Avalanche ratings

Outline





Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Drain to source voltage	V _{DSS}	500	V
Gate to source voltage	V _{GSS}	±30	V
Drain current	ID	7	A
Drain peak current	I _{D(pulse)} * ¹	28	А
Body to drain diode reverse drain current	I _{DR}	7	А
Avalanche current	I _{AP} * ³	7	А
Avalanche energy	E _{AR} * ³	2.7	mJ
Channel dissipation	Pch* ²	30	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 Tc = 25°C

3. Value at Tch = 25°C, Rg \ge 50 Ω

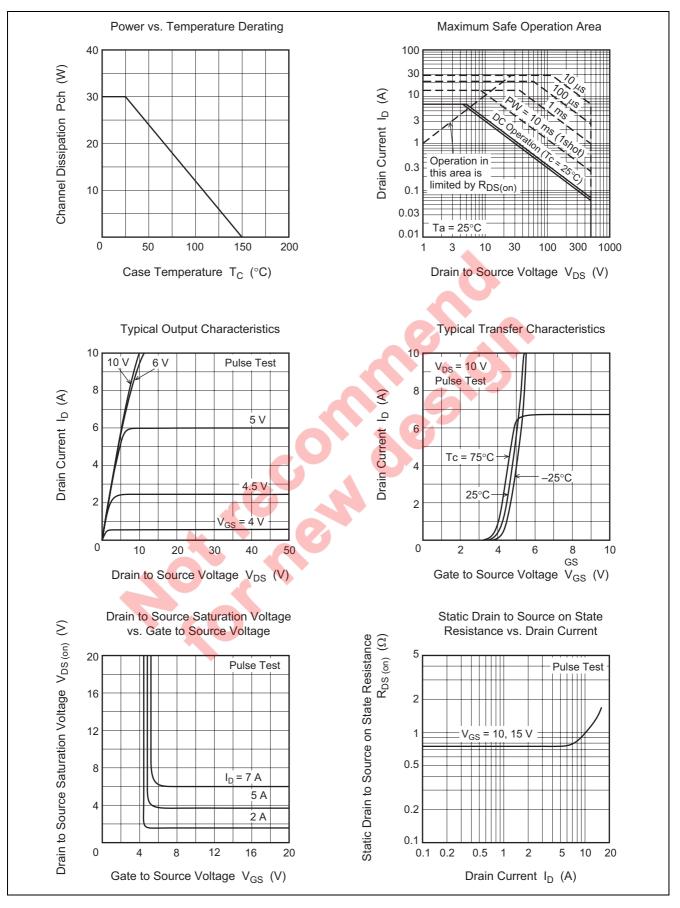
Electrical Characteristics

						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test Conditions
Drain to source breakdown voltage	V _{(BR)DSS}	500	_		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}	-		10	μA	$V_{DS} = 500 \text{ V}, \text{ V}_{GS} = 0$
Gate to source cutoff voltage	V _{GS(off)}	2.5	—	3.5	V	$I_D = 1 \text{ mA}, V_{DS} = 10 \text{ V}^{*4}$
Static drain to source on state	R _{DS(on)}		0.75	0.95	Ω	$I_D = 4 \text{ A}, V_{GS} = 10 \text{ V}^{\star 4}$
resistance						
Forward transfer admittance	y _{fs}	3.5	6.0	—	S	$I_D = 4 \text{ A}, V_{DS} = 10 \text{ V}^{\star 4}$
Input capacitance	Ciss	_	1100	_	pF	V _{DS} = 10 V, V _{GS} = 0, f = 1 MHz
Output capacitance	Coss		330	_	pF	
Reverse transfer capacitance	Crss		65	_	pF	
Total gate charge	Qg		21	_	nc	$V_{DD} = 400 \text{ V}, \text{ V}_{GS} = 10 \text{ V},$ $I_D = 7 \text{ A}$
Gate to source charge	Qgs	_	5	_	nc	
Gate to drain charge	Qgd	_	8	_	nc	
Turn-on delay time	t _{d(on)}	_	20	_	ns	$V_{GS} = 10 \text{ V}, \text{ I}_{D} = 4 \text{ A},$ $R_{L} = 7.5 \Omega$
Rise time	tr	_	65	_	ns	
Turn-off delay time	t _{d(off)}	_	60	_	ns	
Fall time	t _f	—	40	—	ns	
Body to drain diode forward voltage	V_{DF}	_	0.95	_	V	$I_D = 7A, V_{GS} = 0$
Body to drain diode reverse recovery	t _{rr}	_	260	_	ns	$I_F = 7A, V_{GS} = 0$
time						di _F / dt = 100 A/ μs

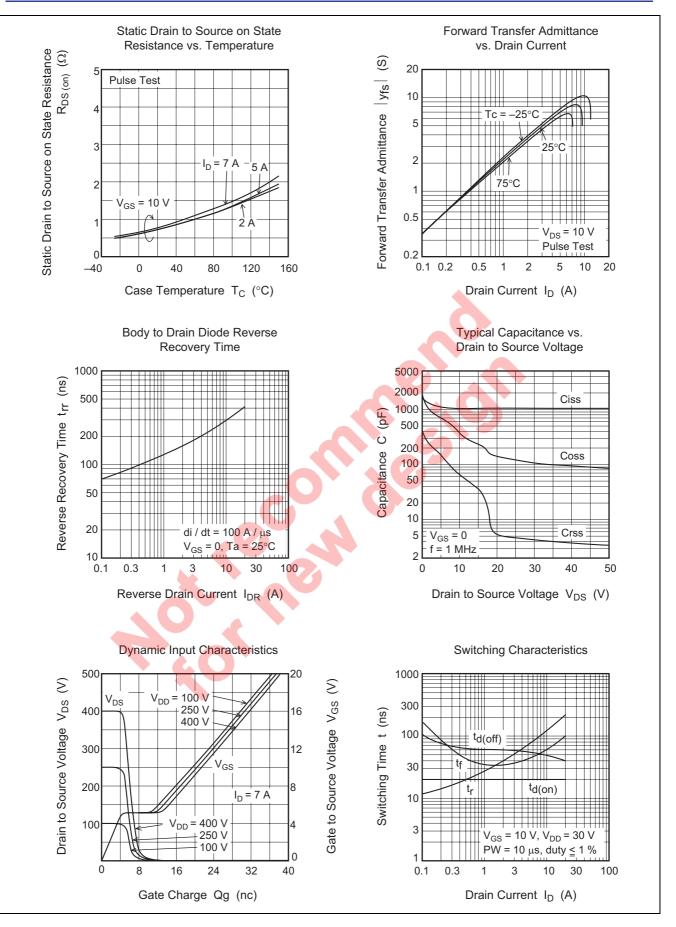
Note: 4. Pulse test



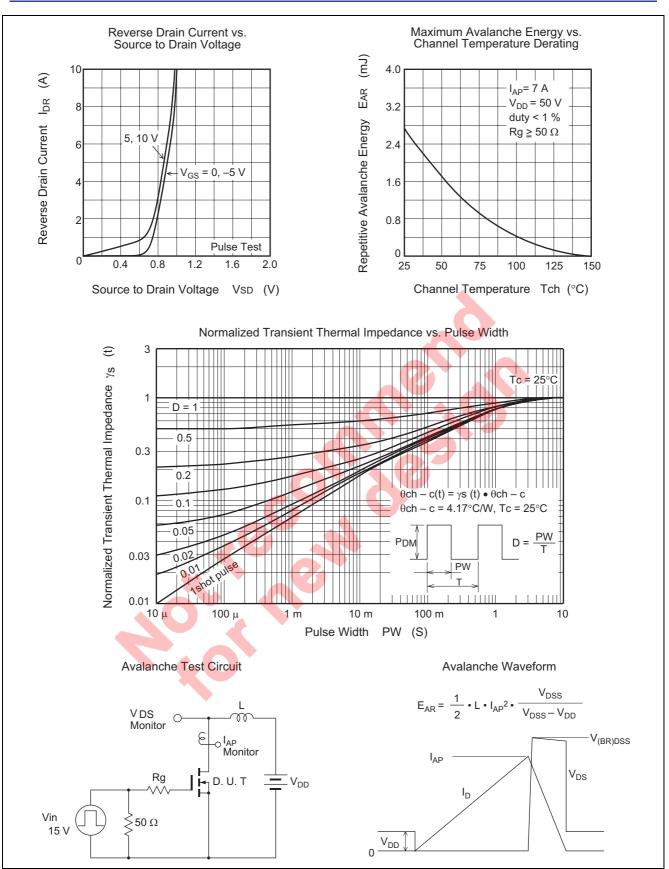
Main Characteristics

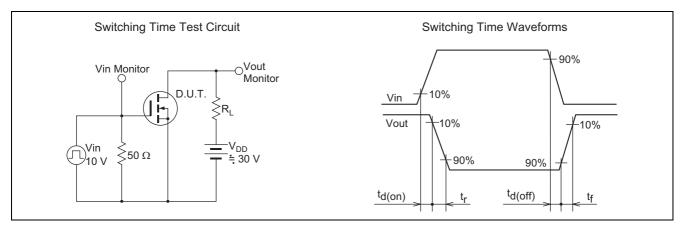








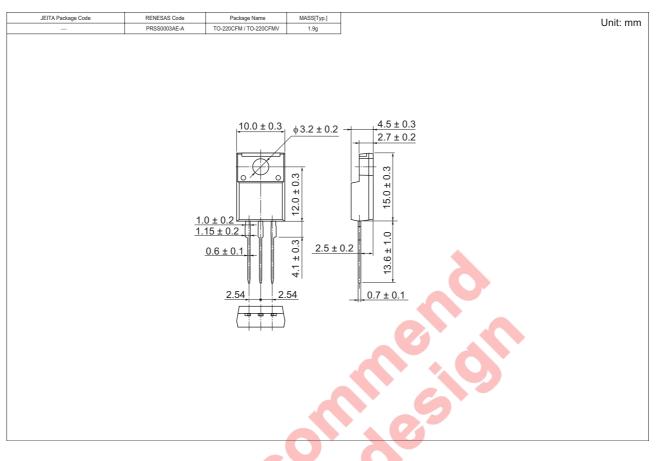








Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SK2726-E	600 pcs	Box (Tube)

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