

2SJ245(L), 2SJ245(S)

SILICON P-CHANNEL MOS FET

Application

High speed power switching

Features

- Low on-resistance
- High speed switching
- Low drive current
- 4 V Gate drive device can be driven from 5 V source
- Suitable for Switching regulator, DC – DC converter

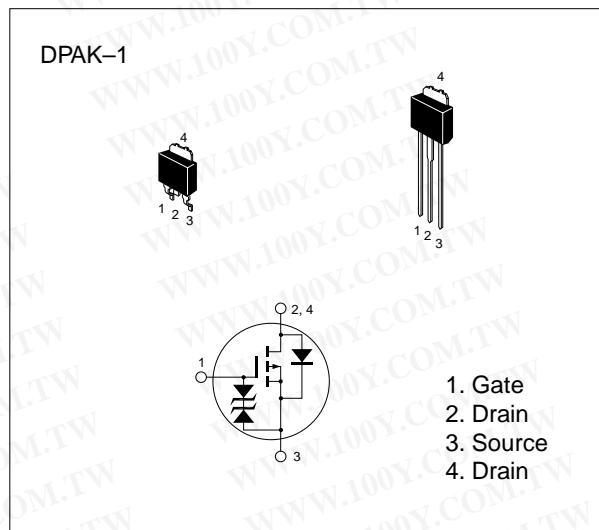


Table 1 Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Drain to source voltage	V _{DSS}	-60	V
Gate to source voltage	V _{GSS}	±20	V
Drain current	I _D	-5	A
Drain peak current	I _{D(pulse)} *	-20	A
Body-drain diode reverse drain current	I _{DR}	-5	A
Channel dissipation	P _{ch} **	20	W
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* PW ≤ 10 µs, duty cycle ≤ 1 %

** Value at T_c=25°C

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Table 2 Electrical Characteristics (Ta = 25°C)

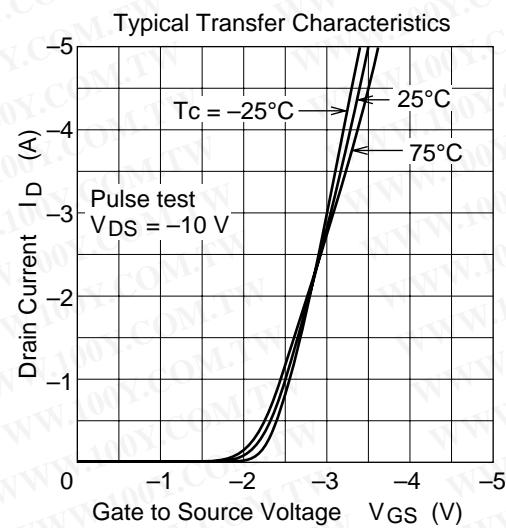
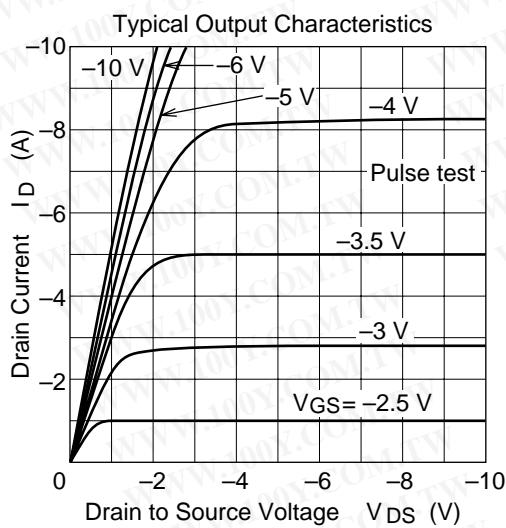
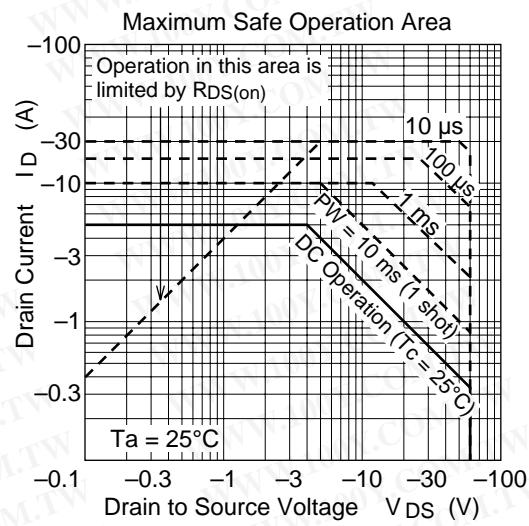
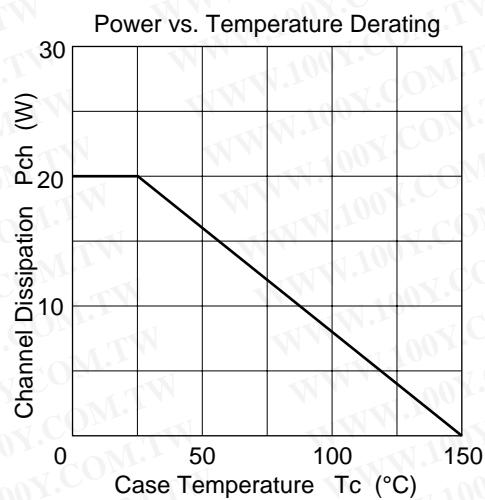
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Drain to source breakdown voltage	V _{(BR)DSS}	-60	—	—	V	I _D = -10 mA, V _{GS} = 0
Gate to source breakdown voltage	V _{(BR)GSS}	±20	—	—	V	I _G = ±100 μA, V _{DS} = 0
Gate to source leak current	I _{GSS}	—	—	±10	μA	V _{GS} = ±16 V, V _{DS} = 0
Zero gate voltage drain current	I _{DSS}	—	—	-100	μA	V _{DS} = -50 V, V _{GS} = 0
Gate to source cutoff voltage	V _{GS(off)}	-1.0	—	-2.0	V	I _D = -1 mA, V _{DS} = -10 V
Static drain to source on state resistance	R _{DS(on)}	—	0.2	0.25	Ω	I _D = -3 A V _{GS} = -10 V *
		—	0.28	0.38	Ω	I _D = -3 A V _{GS} = -4 V *
Forward transfer admittance	y _{fs}	2.2	3.7	—	S	I _D = -3 A V _{DS} = -10 V *
Input capacitance	C _{iss}	—	610	—	pF	V _{DS} = -10 V
Output capacitance	C _{oss}	—	315	—	pF	V _{GS} = 0
Reverse transfer capacitance	C _{rss}	—	95	—	pF	f = 1 MHz
Turn-on delay time	t _{d(on)}	—	12	—	ns	I _D = -3 A
Rise time	t _r	—	45	—	ns	V _{GS} = -10 V
Turn-off delay time	t _{d(off)}	—	170	—	ns	R _L = 10 Ω
Fall time	t _f	—	90	—	ns	
Body-drain diode forward voltage	V _{DF}	—	-1.1	—	V	I _F = -5 A, V _{GS} = 0
Body-drain diode reverse recovery time	t _{rr}	—	160	—	ns	I _F = -5 A, V _{GS} = 0, diF / dt = 50 A / μs

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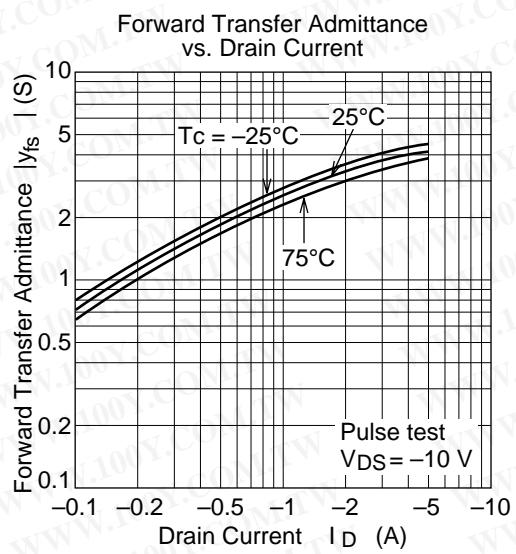
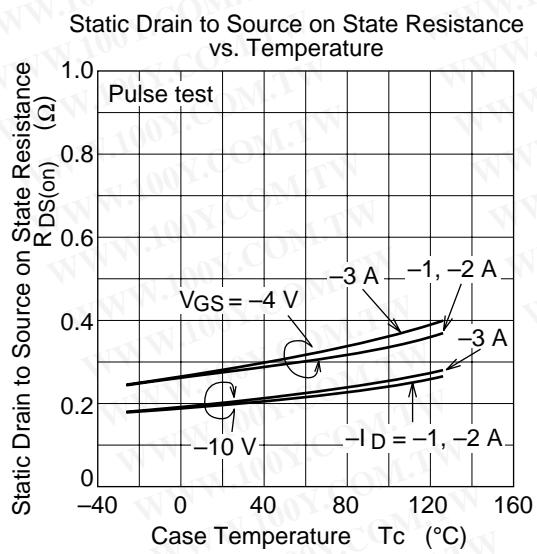
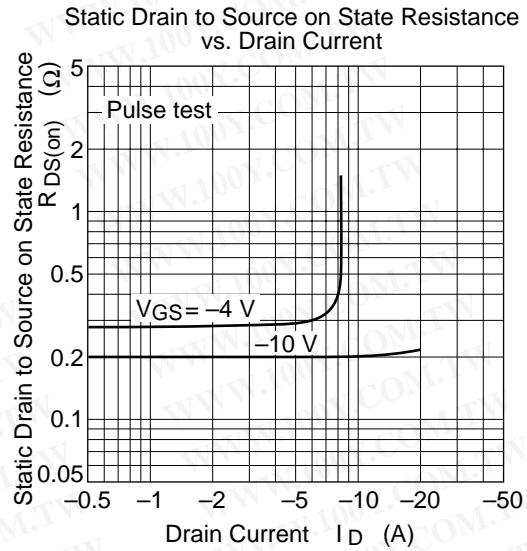
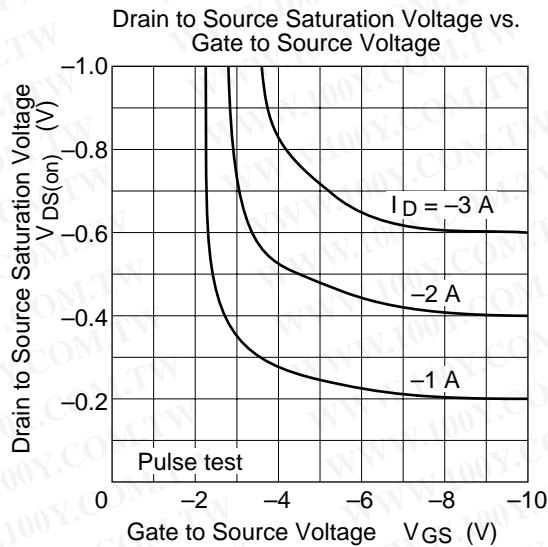
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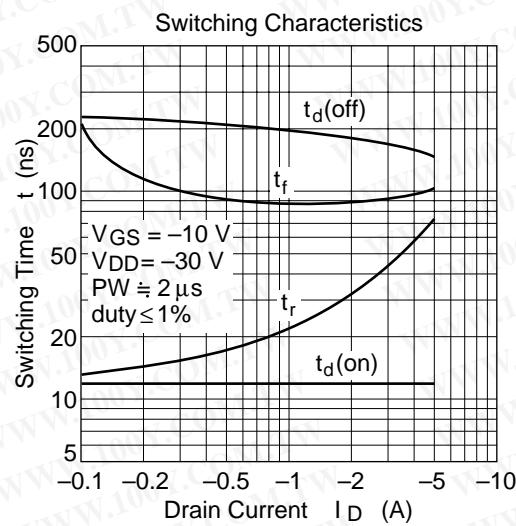
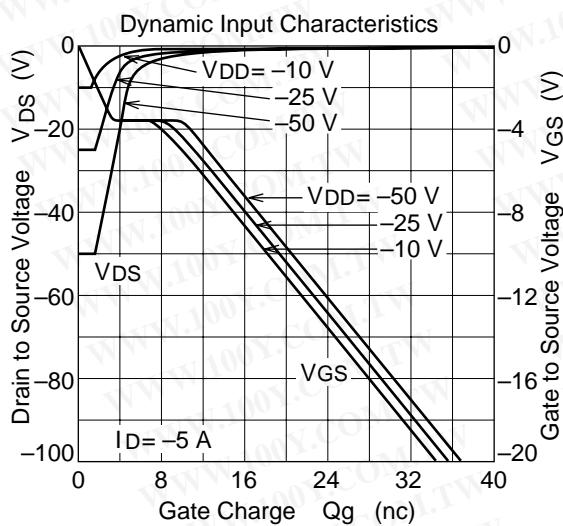
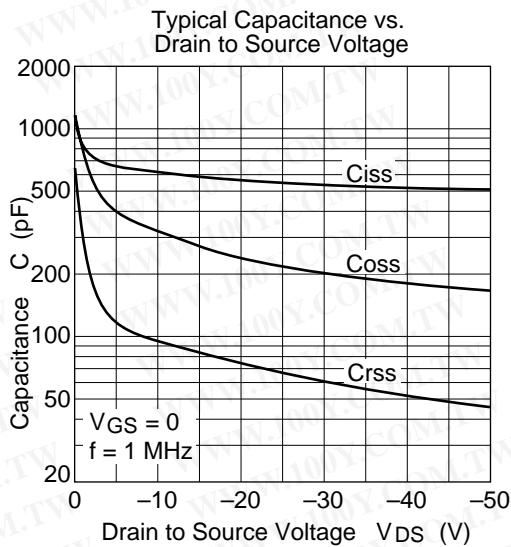
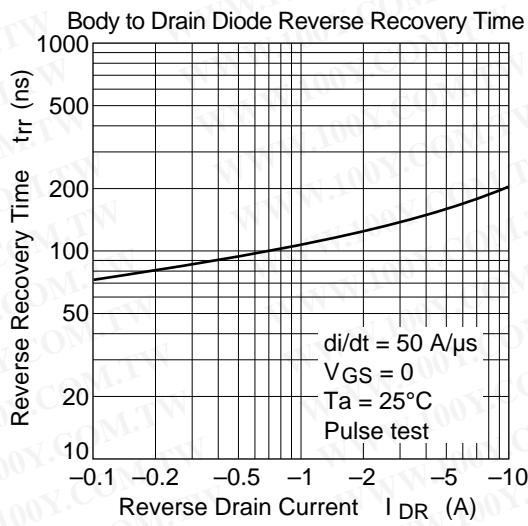


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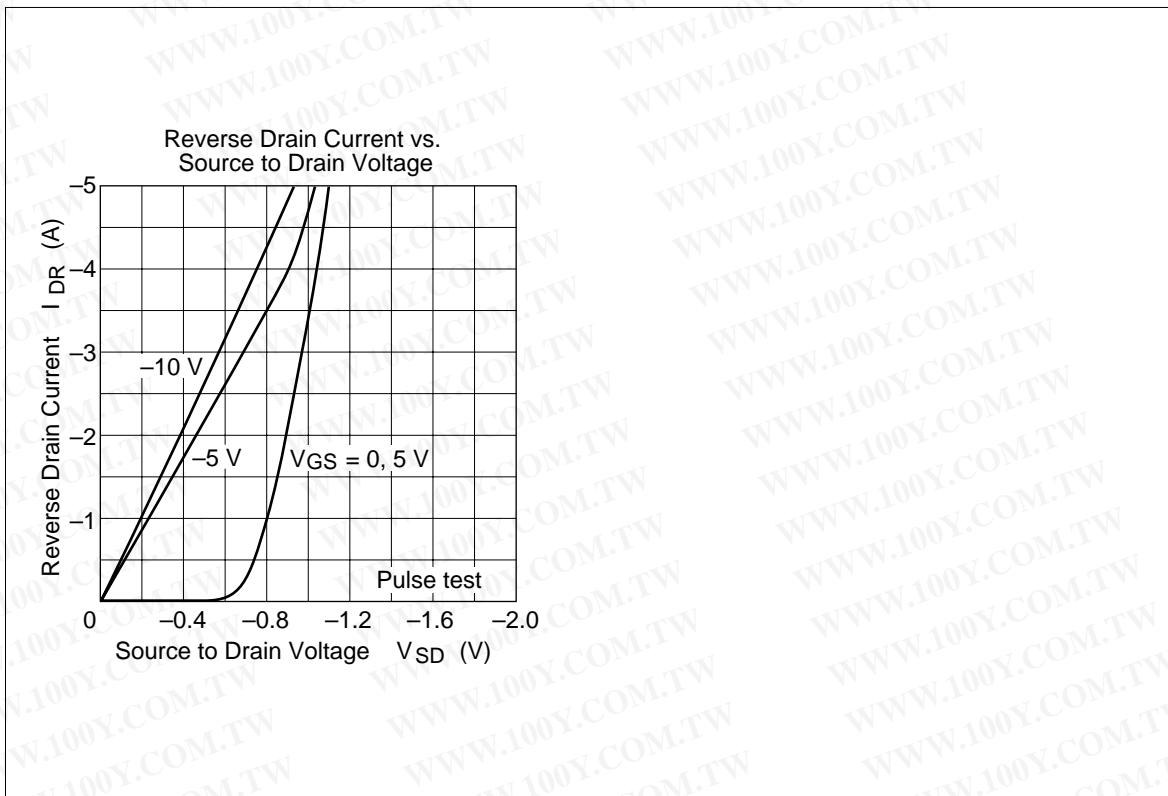
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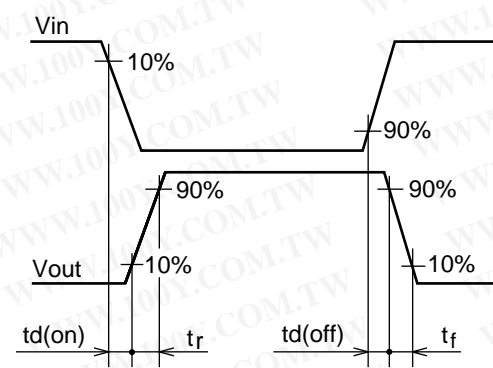
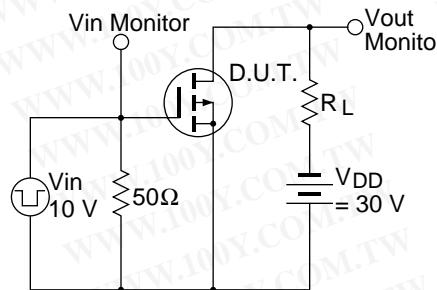
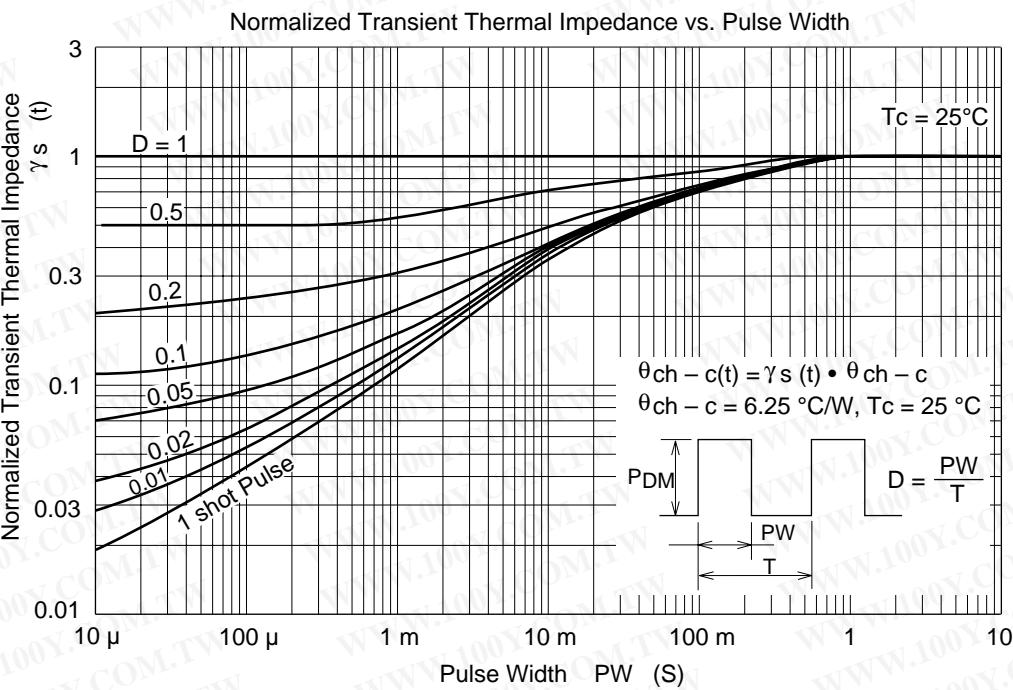
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