2SJ576

Silicon P Channel MOS FET High Speed Switching

HITACHI

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Features

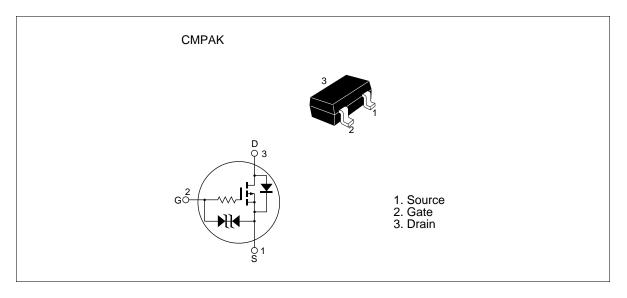
• Low on-resistance

$$R_{DS}$$
 =2.8 Ω typ. (V $_{GS}$ = -10 V , I_D = -50 mA)

$$R_{DS}$$
 =5.7 Ω typ. (V $_{GS}$ = -4 V , I_{D} = -50 mA)

- 4 V gate drive device.
- Small package (CMPAK)

Outline





2SJ576

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Drain to source voltage	V _{DSS}	-30	V
Gate to source voltage	V _{GSS}	±20	V
Drain current	I _D	-100	mA
Drain peak current	Note1 D(pulse)	-400	mA
Body-drain diode reverse drain current	I _{DR}	-100	mA
Channel dissipation	Pch Note 2	300	mW
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

2. Value on the alumina ceramic board (12.5x20x0.7 mm)

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

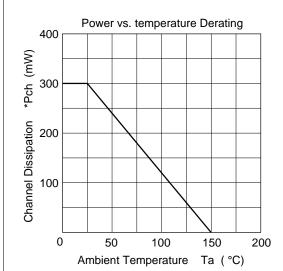
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Drain to source breakdown voltage	$V_{(BR)DSS}$	-30	_	_	V	$I_D = -100 \ \mu A, \ V_{GS} = 0$
Gate to source breakdown voltage	$V_{(BR)GSS}$	±20	_	_	V	$I_{G} = \pm 100 \ \mu A, \ V_{DS} = 0$
Gate to source leak current	I _{GSS}	_	_	±5	μΑ	$V_{GS} = \pm 16 \text{ V}, V_{DS} = 0$
Zero gate voltege drain current	I _{DSS}	_	_	-1	μΑ	$V_{DS} = -30 \text{ V}, V_{GS} = 0$
Gate to source cutoff voltage	$V_{GS(off)}$	-1.3	_	-2.3	V	$I_D = -10\mu A, V_{DS} = -5 V$
Static drain to source on state	R _{DS(on)}	_	2.8	3.3	Ω	$I_D = -50 \text{ mA}, V_{GS} = -10 \text{ V}^{\text{Note 3}}$
resistance	R _{DS(on)}	_	5.7	7.9	Ω	$I_D = -50 \text{ mA}, V_{GS} = -4 \text{ V}^{\text{Note 3}}$
Forward transfer admittance	y _{fs}	68	105	_	mS	$I_D = -50 \text{ mA}, V_{DS} = -10 \text{ V}^{\text{Note 3}}$
Input capacitance	Ciss	_	25	_	pF	V _{DS} = -10 V
Output capacitance	Coss	_	20	_	pF	$V_{GS} = 0$
Reverse transfer capacitance	Crss	_	8	_	pF	f = 1 MHz
Turn-on delay time	$t_{d(on)}$	_	10	_	ns	$I_D = -50 \text{ mA}, V_{GS} = -10 \text{ V}$
Rise time	t _r	_	15	_	ns	$R_L = 200\Omega$
Turn-off delay time	t _{d(off)}	_	40	_	ns	_
Fall time	t _f	_	45	_	ns	

Note: 3. Pulse test

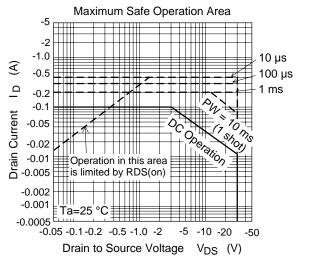
4. Marking is AP

See characteristics curves of 2SJ575

Main Characteristics



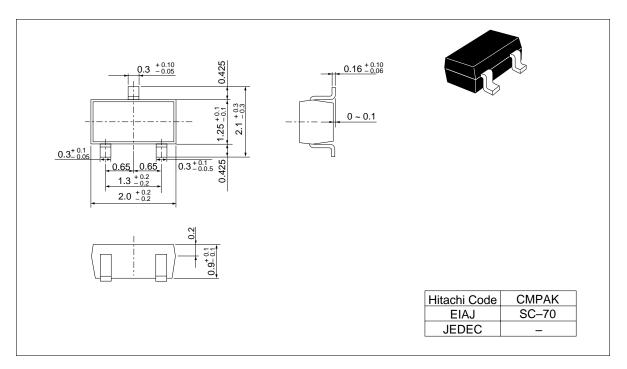




Value on the alumina ceramic board.(12.5x20x0.7mm)

Package Dimensions

Unit: mm



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