imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Contact us

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2SK3547G

Silicon N-channel MOSFET

For switching

Features

- High-speed switching
- Wide frequency band
- Gate-protection diode built-in

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Drain-source voltage	V _{DS}	50	V
Gate-source voltage (Drain open)	V _{GSO}	±7	V
Drain current	I _D	100	mA
Peak drain current	I _{DP}	200	mA
Power dissipation	P _D	100	mW
Channel temperature	T _{ch}	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

Package

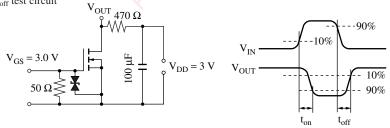
- Code
- SSSMini3-F2
- Marking Symbol: 5F
- Pin Name
 - 1: Gate
- 2: Source
- 3: Drain

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

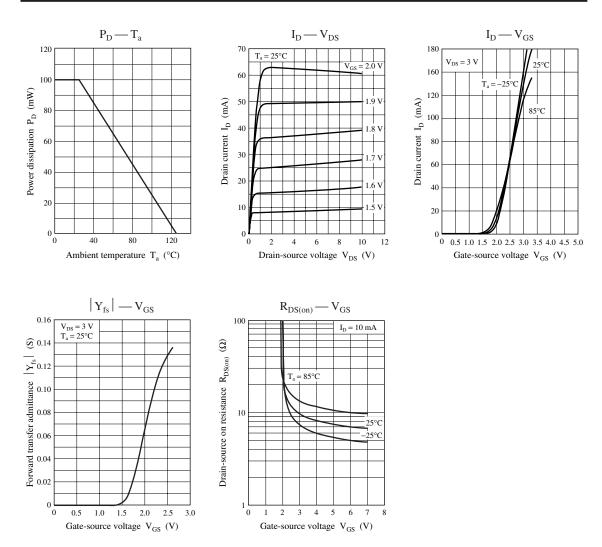
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain-source surrender voltage	V _{DSS}	$I_{\rm D} = 10 \ \mu A, V_{\rm GS} = 0$	50	.0	5	V
Drain-source cutoff current	I _{DSS}	$V_{DS} = 50 \text{ V}, \text{ V}_{GS} = 0$	2	V)	1.0	μΑ
Gate-source cutoff current	I _{GSS}	$V_{GS} = \pm 7 V, V_{DS} = 0$, c	±5.0	μΑ
Gate threshold voltage	V _{th}	$I_D = 1.0 \ \mu A, \ V_{DS} = 3 \ V$	0.9	1.2	1.5	V
Drain-source ON resistance	R _{DS(on)}	$I_{\rm D} = 10 \text{ mA}, V_{\rm GS} = 2.5 \text{ V}$	0	8	15	Ω
	\mathcal{C}	$I_D = 10 \text{ mA}, V_{GS} = 4.0 \text{ V}$		6	12	
Forward transfer admittance	Y _{fs}	$I_D = 10 \text{ mA}, V_{DS} = 3 \text{ V}, \text{ f} = 1 \text{ kHz}$	20	60		mS
Short-circuit forward transfer capacitance (Common-source)	C _{iss}	$V_{DS} = 3 V, V_{GS} = 0, f = 1 MHz$		12		pF
Short-circuit output capacitance (Common-source)	C _{oss}	$V_{DS} = 3 V, V_{GS} = 0, f = 1 MHz$		7		pF
Reverse transfer capacitance (Common-source)	C _{rss}	$V_{DS} = 3 V, V_{GS} = 0, f = 1 MHz$		3		pF
Turn-on time *	t _{on}	$V_{DD} = 3 V, V_{GS} = 0 V \text{ to } 3 V, R_L = 470 \Omega$		200		ns
Turn-off time *	t _{off}	$V_{DD} = 3 V, V_{GS} = 3 V \text{ to } 0 V, R_L = 470 \Omega$		200		ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.





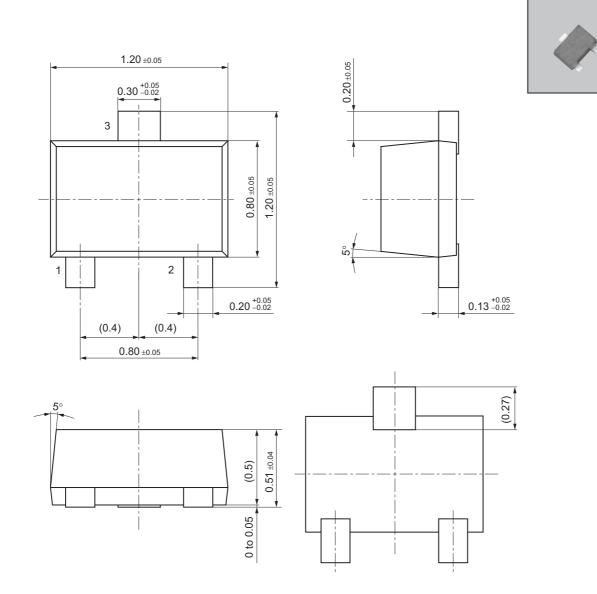
2SK3547G



Panasonic



Unit: mm



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