Silicon Junction FETs (Small Signal)

Panasonic

2SK0663 (2SK663)

Silicon N-Channel Junction FET

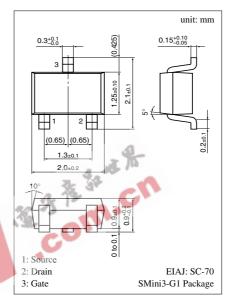
For low-frequency amplification For switching

Features

- Low noise-figure (NF)
- \bullet High gate to drain voltage V_{GDO}
- S-mini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing.

■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Ratings	Unit
Drain to Source voltage	V _{DSX}	55	V
Gate to Drain voltage	V _{GDO}	-55	V
Gate to Source voltage	V _{GSO}	-55	V
Drain current	ID	30	mA
Gate current	I _G	10	mA
Allowable power dissipation	PD	150	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



Marking Symbol (Example): 2B

■ Electrical Characteristics (Ta = 25°C)

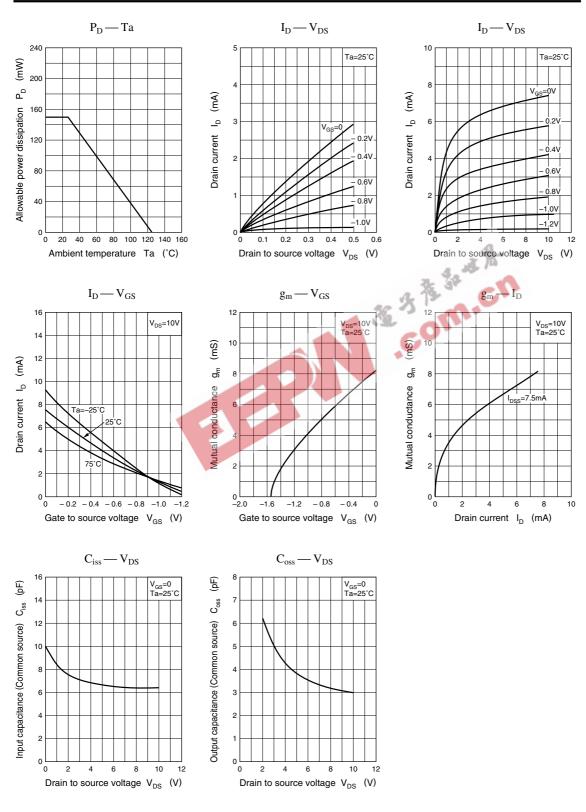
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain to Source cut-off current	I _{DSS} *	$V_{DS} = 10V, V_{GS} = 0$	1		12	mA
Gate to Source leakage current	I _{GSS}	$V_{GS} = -30V, V_{DS} = 0$			-10	nA
Gate to Drain voltage	V _{GDS}	$I_{G} = 100 \mu A, V_{DS} = 0$	55	80		V
Gate to Source cut-off voltage	V _{GSC}	$V_{DS} = 10V, I_D = 10\mu A$			-5	V
Mutual conductance	g _m	$V_{DS} = 10V, I_D = 5mA, f = 1kHz$	2.5	7.5		mS
Input capacitance (Common Source)	C _{iss}	$V_{-} = 10V_{-}V_{-} = 0.6 = 1MH_{2}$		6.5		pF
Reverse transfer capacitance (Common Source)	C _{rss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		1.9		pF
Noise figure	NF	$V_{DS} = 10V, V_{GS} = 0, R_g = 100k\Omega$ $f = 100Hz$		2.5		dB

* I_{DSS} rank classification

Runk	Р	Q	R
I _{DSS} (mA)	1 to 3	2 to 6.5	5 to 12
Marking Symbol	2BP	2BQ	2BR

Note) The part number in the parenthesis shows conventional part number.

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