2SK0663 (2SK663)

Silicon N-Channel Junction FET

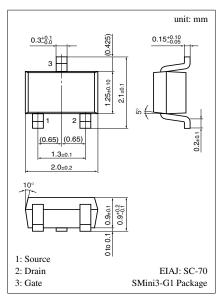
For low-frequency amplification For switching

■ Features

- Low noise-figure (NF)
- 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	I_{D}	30	mA	
Gate current	I_G	10	mA	
Allowable power dissipation	P_{D}	150	mW	
Junction temperature	T _j	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	



Marking Symbol (Example): 2B

■ Electrical Characteristics (Ta = 25°C)

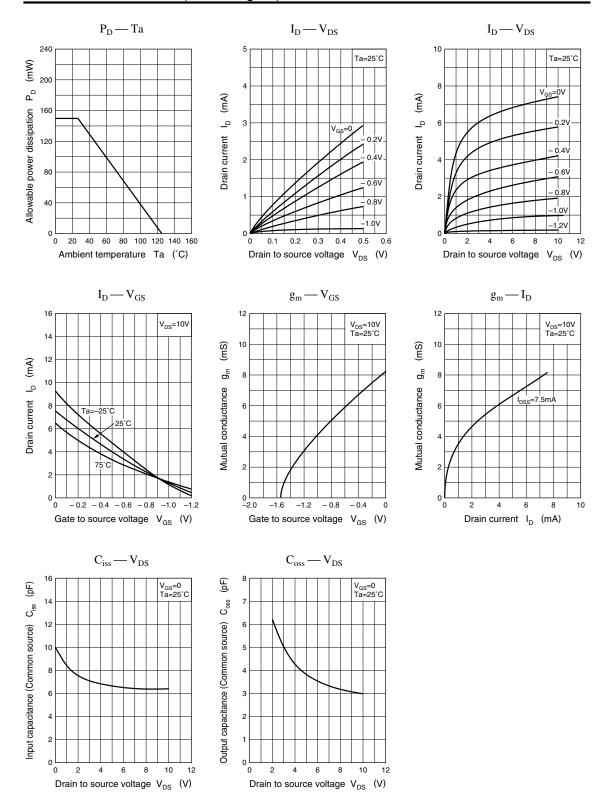
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain to Source cut-off current	${\rm I_{DSS}}^*$	$V_{DS} = 10V, V_{GS} = 0$	1		12	mA
Gate to Source leakage current	I_{GSS}	$V_{GS} = -30V, V_{DS} = 0$			-10	nA
Gate to Drain voltage	V_{GDS}	$I_G = 100 \mu A, V_{DS} = 0$	55	80		V
Gate to Source cut-off voltage	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 f - 1MHz		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

* IDSS rank classification

Runk	P	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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