

TOSHIBA FIELD EFFECT TRANSISTOR SILICON N CHANNEL MOS TYPE

2SK2854

UHF BAND AMPLIFIER APPLICATION

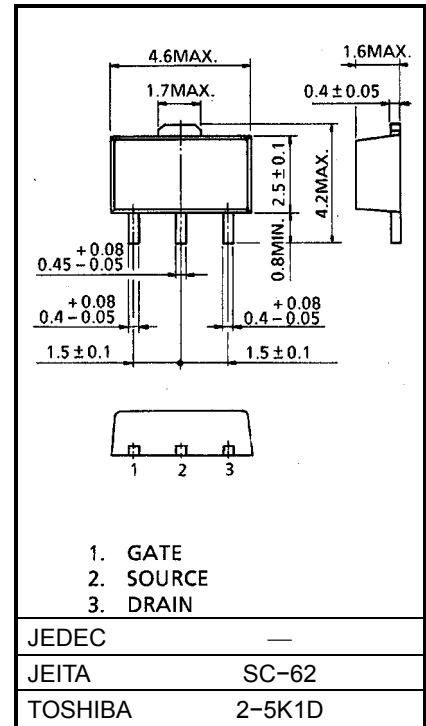
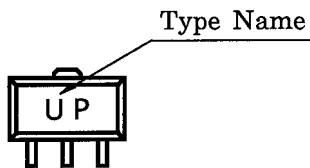
Unit in mm

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V _{DSS}	10	V
Gate-Source Voltage	V _{GSS}	±6	V
Drain Current	I _D	0.5	A
Drain Power Dissipation	P _D *	0.5	W
Channel Temperature	T _{ch}	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C

*: Tc = 25°C When mounted on a 1.6mm glass epoxy PCB

MARKING



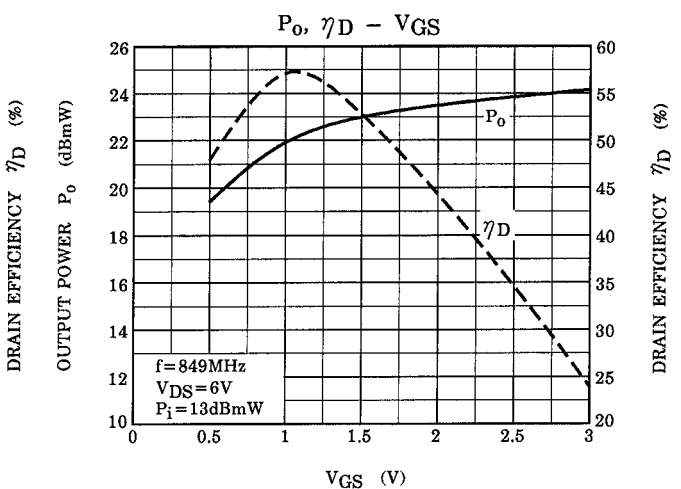
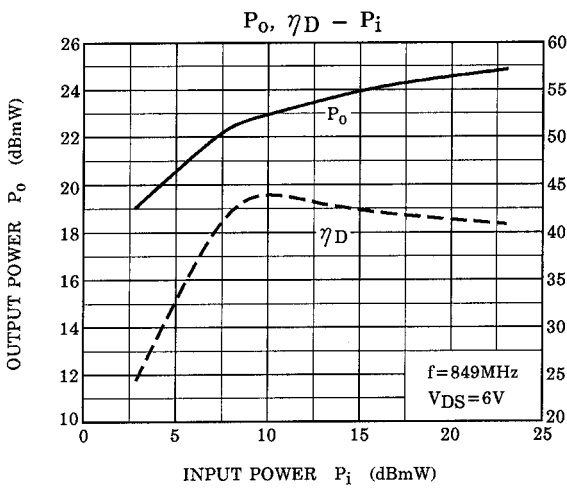
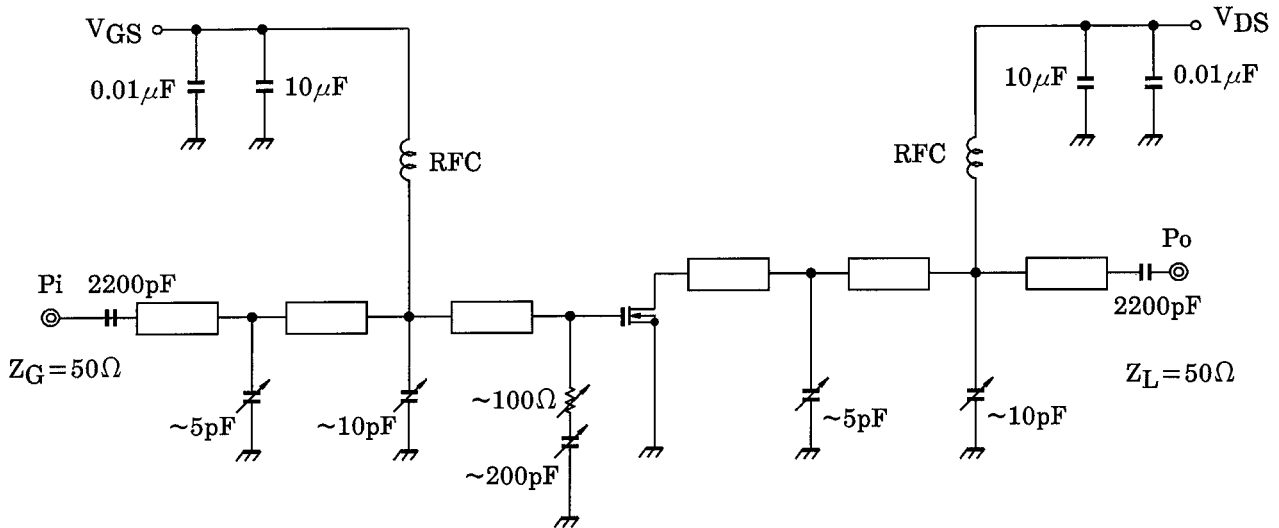
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Power	P _O	V _{DS} = 6V, f = 849MHz P _i = 13dBmW	23	—	—	dBmW
Drain Efficiency	η _D	V _{DS} = 6V, f = 849MHz P _i = 13dBmW, P _O = 23dBmW	40	—	—	%
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} = 0, I _D = 1μA	10	—	—	V
Drain Cut-off Current	I _{DSS}	V _{DS} = 6V, V _{GS} = 0	—	—	100	nA
Threshold Voltage	V _{th}	V _{DS} = 6V, I _D = 250μA	1.0	1.4	1.8	V
Gate-Source Leakage Current	I _{GSS}	V _{GS} = 6V, V _{DS} = 0	—	—	±100	nA

CAUTION

This transistor is the electrostatic sensitive device.
Please handle with caution.

RF OUTPUT POWER TEST FIXTURE



CAUTION

These are only typical curves and devices are not necessarily guaranteed at these curves.

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