

TOSHIBA FIELD EFFECT TRANSISTOR SILICON N CHANNEL MOS TYPE

2SK2855

UHF BAND AMPLIFIER APPLICATION

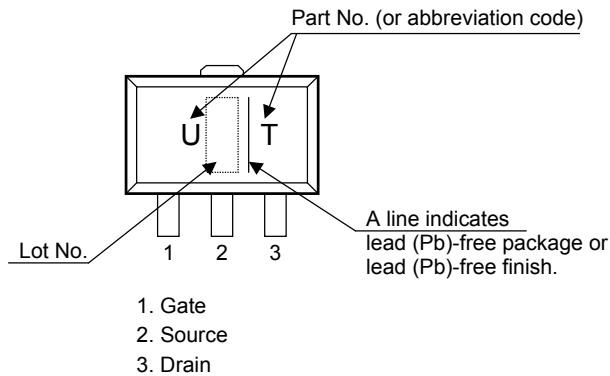
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MAXIMUM RATINGS (Ta = 25°C)

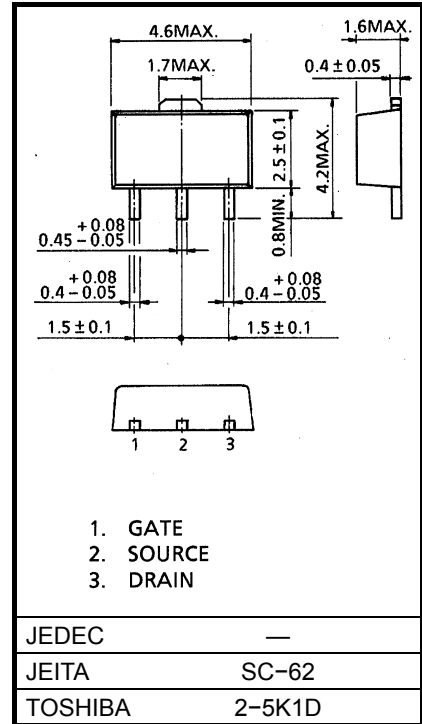
CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V _{DSS}	10	V
Gate-Source Voltage	V _{GSS}	±6	V
Drain Current	I _D	1.0	A
Drain Power Dissipation	P _D (Note 1)	0.5	W
Channel Temperature	T _{ch}	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C

Note 1: Tc = 25°C When mounted on a 1.6mm glass epoxy PCB

MARKING



Unit in mm



Caution: This device is sensitive to electrostatic discharge.

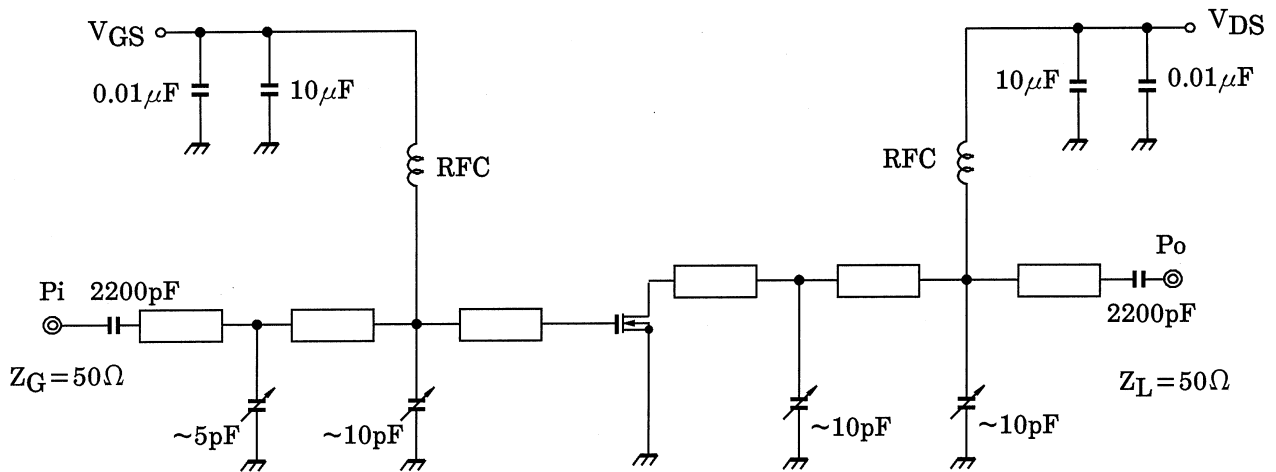
Please make enough tool and equipment earthed when you handle.

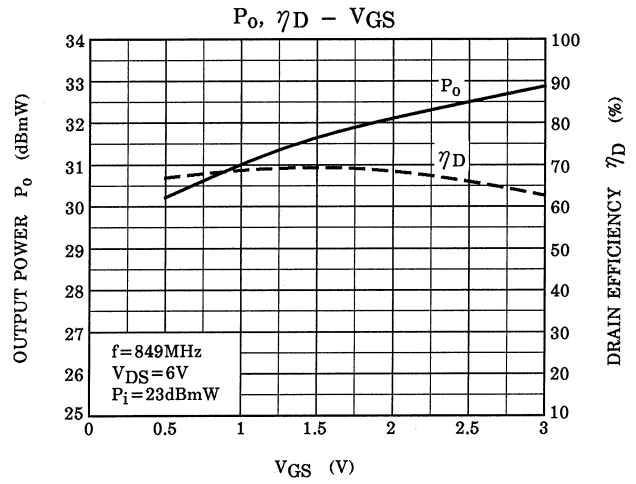
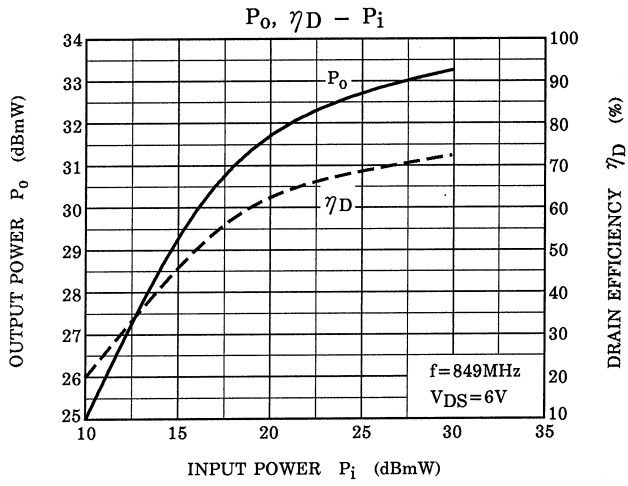
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Power	P_O	$V_{DS} = 6V, f = 849MHz$ $P_i = 23dBmW$	31	—	—	dBmW
Drain Efficiency	η_D	$V_{DS} = 6V, f = 849MHz$ $P_i = 23dBmW, P_O = 31dBmW$	55	—	—	%
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$V_{GS} = 0, I_D = 1\mu A$	10	—	—	V
Drain Cut-off Current	I_{DSS}	$V_{DS} = 6V, V_{GS} = 0$	—	—	100	nA
Threshold Voltage	V_{th}	$V_{DS} = 6V, I_D = 500\mu A$	1.0	1.4	1.8	V
Gate-Source Leakage Current	I_{GSS}	$V_{GS} = 6V, V_{DS} = 0$	—	—	± 100	nA

Note 2: These characteristic values are measured using measurement tools specified by Toshiba.

RF OUTPUT POWER TEST FIXTURE





Note 3: These are only typical curves and devices are not necessarily guaranteed at these curves.

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20070701-EN

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