TOSHIBA

2SK2854

TOSHIBA FIELD EFFECT TRANSISTOR SILICON N CHANNEL MOS TYPE

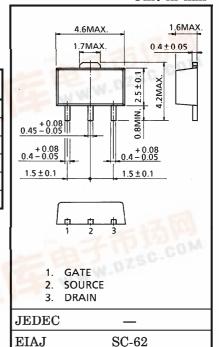
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UHF BAND AMPLIFIER APPLICATION

Unit in mm

MAXIMUM RATINGS ($Ta = 25^{\circ}C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	$V_{ m DSS}$	10	V
Gate-Source Voltage	VGSS	±6	V
Drain Current	$I_{\mathbf{D}}$	0.5	A
Drain Power Dissipation	$P_{\mathbf{D}}$	0.5	W
Channel Temperature	$\mathrm{T_{ch}}$	150	$^{\circ}\mathrm{C}$
Storage Temperature Range	$ m T_{stg}$	-55~150	$^{\circ}\mathrm{C}$



2-5K1D

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MARKING

Type Name



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Power	PO	$V_{ m DS}$ =6V, f=849MHz Pi=13dBmW	23	O.W.	Lau	dBmW
Drain Efficiency	$\eta_{\mathbf{D}}$	V _{DS} =6V, f=849MHz Pi=13dBmW, P _O =23dBmW	40	_	_	%
Drain-Source Breakdown Voltage	V (BR) DSS	V _{GS} =0, I _D =1μA	10	_	_	V
Drain Cut-off Current	$I_{ m DSS}$	$V_{DS}=6V, V_{GS}=0$	_	_	100	nA
Threshold Voltage	$ m V_{th}$	$V_{DS} = 6V, I_{D} = 250 \mu A$	1.0	1.4	1.8	V
Gate-Source Leakage Current	I_{GSS}	$V_{GS}=6V, V_{DS}=0$	(1)	77	±100	nA

CAUTION

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

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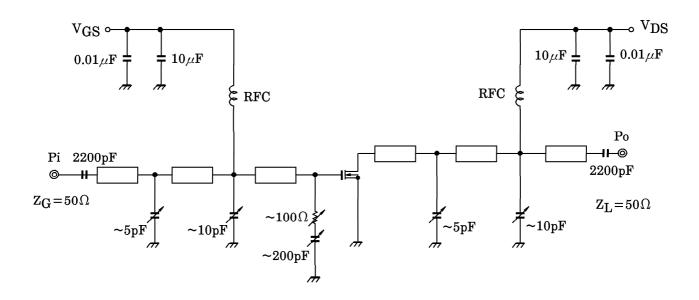
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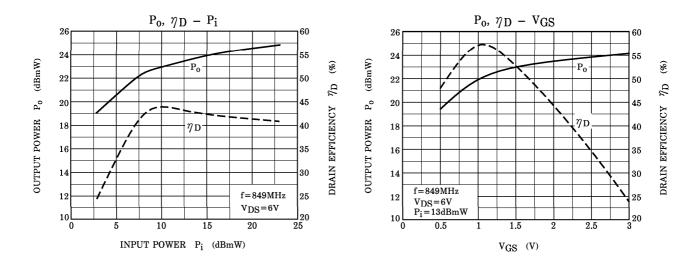
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RF OUTPUT POWER TEST FIXTURE





CAUTION

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