

2SK3077

900 MHz BAND AMPLIFIER APPLICATIONS (GSM)

(Note)The TOSHIBA products listed in this document are intended for high frequency Power Amplifier of telecommunications equipment. These TOSHIBA products are neither intended nor warranted for any other use. Do not use these TOSHIBA products listed in this document except for high frequency Power Amplifier of telecommunications equipment.

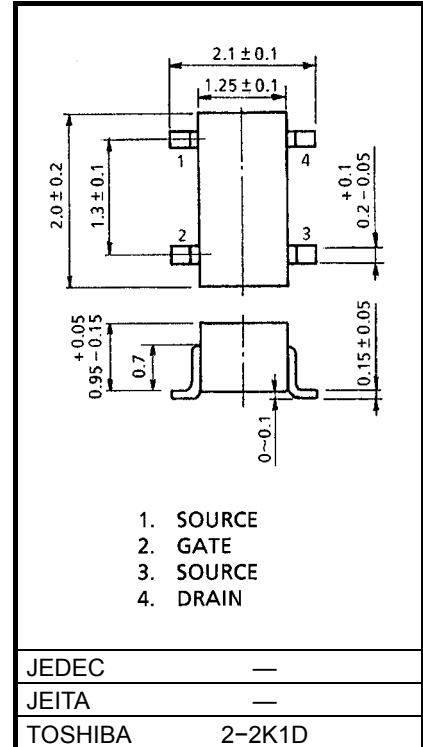
- Output Power : $P_O = 15.0 \text{ dBmW (Min.)}$
- Gain : $G_P = 15.0 \text{ dB (Min.)}$
- Drain Efficiency : $\eta_D = 20\% \text{ (Typ.)}$

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

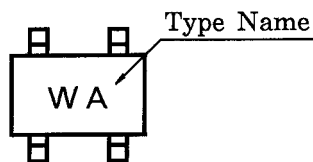
CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DSS}	10	V
Gate-Source Voltage	V_{GSS}	5	V
Drain Current	I_D	0.1	A
Power Dissipation	P_{D^*}	250	mW
Channel Temperature	T_{ch}	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-45~150	$^\circ\text{C}$

*: $T_c = 25^\circ\text{C}$ When mounted on a 1.6 mm glass epoxy PCB

Unit: mm



MARKING



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

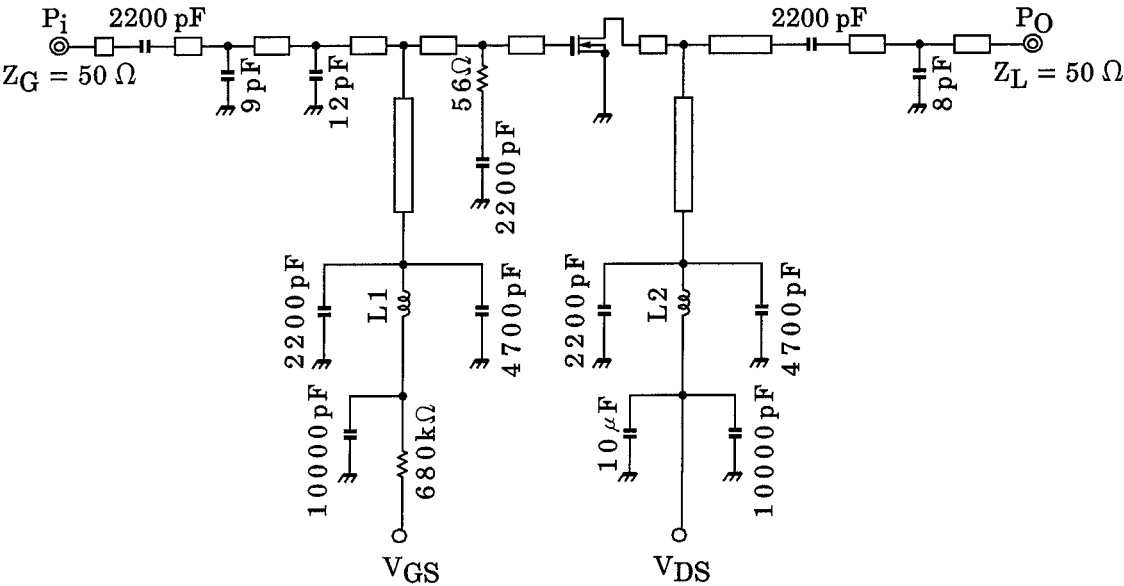
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Output Power	PO	VDS = 4.8V Iidle = 43 mA (VGS = adjust) f = 915 MHz, Pi = 0 dBmW	15.0	—	—	dBmW
Drain Efficiency	ηD		—	20.0	—	%
Power Gain	Gp		15.0	—	—	dB
Threshold Voltage	Vth	VDS = 4.8 V, ID = 0.5 mA	0.25	—	1.25	V
Drain Cut-off Current	IDSS	VDS = 10 V, VGS = 0 V	—	—	10	μA
Gate-Source Leakage Current	IGSS	VGS = 5 V, VDS = 0 V	—	—	5	μA

Note 1: These characteristic values are measured using measurement tools specified by Toshiba.

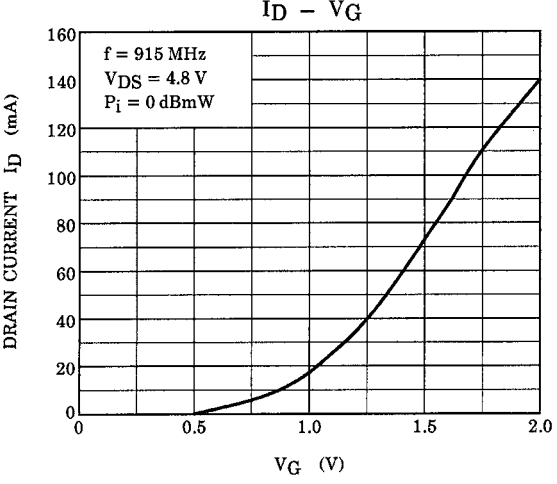
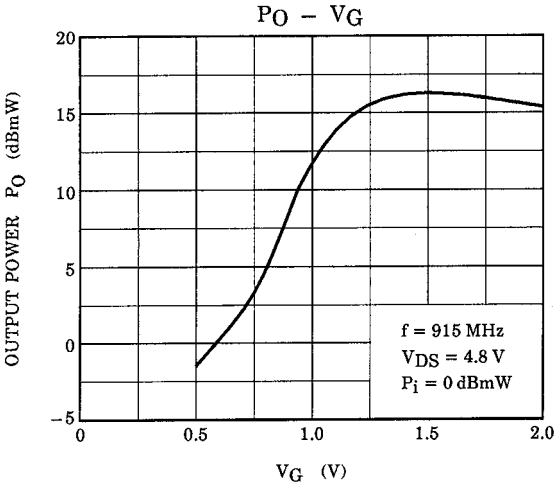
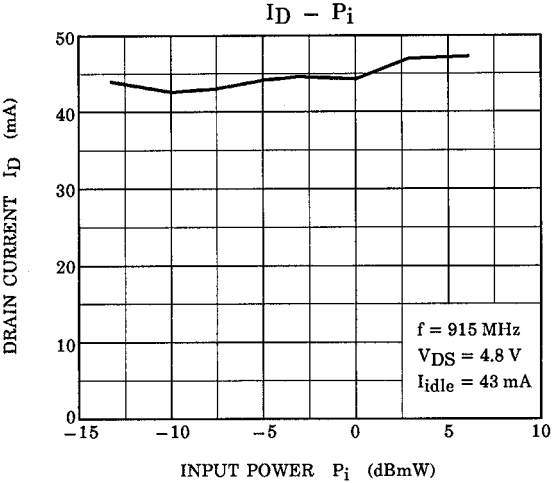
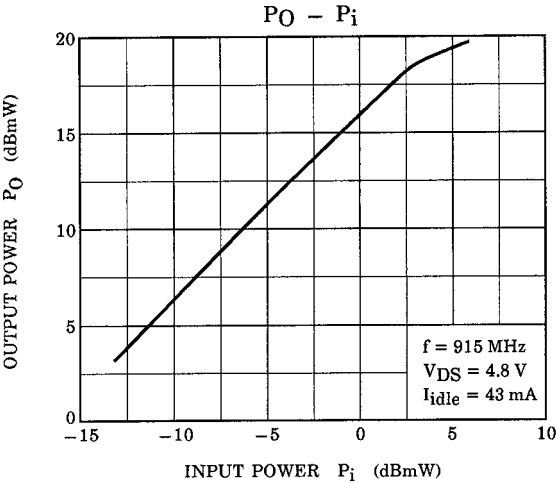
CAUTION

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

RF OUTPUT POWER TEST FIXTURE



- L1 : ϕ0.6 mm, 5.5 mmID, 5T
- L2 : ϕ0.6 mm, 5.5 mmID, 8T



CAUTION

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

RESTRICTIONS ON PRODUCT USE

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