TOSHIBA FIELD EFFECT TRANSISTOR SILICON N CHANNEL MOS TYPE

2SK3077

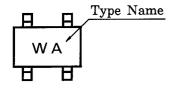
900 MHz BAND AMPLIFIER APPLICATIONS (GSM)

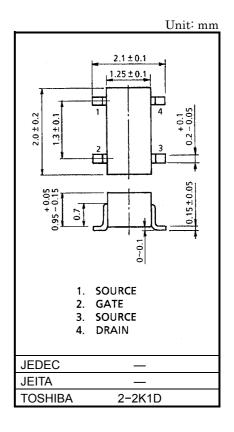
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DSS}	10	٧
Gate-Source Voltage	V_{GSS}	5	V
Drain Current	I _D	0.1	Α
Power Dissipation	P _{D*}	0.1	W
Channel Temperature	T _{ch}	150	°C
Storage Temperature Range	T _{stg}	-45~150	°C

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

MARKING





ELECTRICAL CHARACTERISTICS (Ta = 25°C)

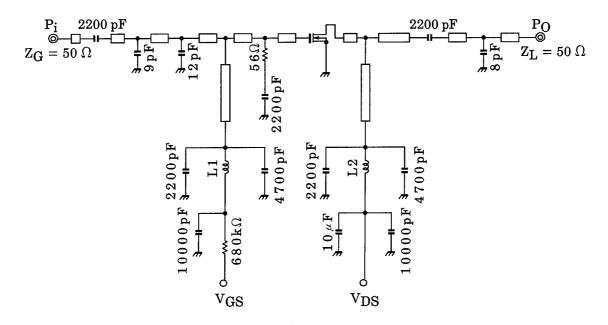
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Output Power	PO	V_{DS} = 4.8V lidle = 43 mA (V_{GS} = adjust)	15.0	_	_	dBmW
Drain Efficiency	η_{D}		1	20.0	1	%
Power Gain	G _P	f = 915 MHz, P _i = 0 dBmW	15.0	_	_	dB
Threshold Voltage	V_{th}	$V_{DS} = 4.8 \text{ V}, I_D = 0.5 \text{ mA}$	0.25	_	1.25	V
Drain Cut-off Current	I _{DSS}	V _{DS} = 10 V, V _{GS} = 0 V	_	_	10	μA
Gate-Source Leakage Current	I _{GSS}	$V_{GS} = 5 \text{ V}, V_{DS} = 0 \text{ V}$	_	_	5	μΑ

CAUTION

This transistor is the electrostatic sensitive device.

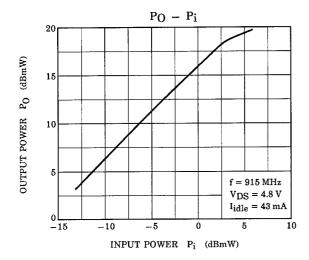
Please handle with caution.

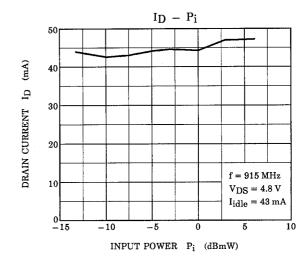
RF OUTPUT POWER TEST FIXTURE

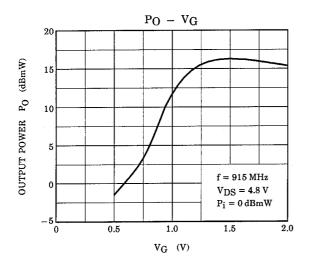


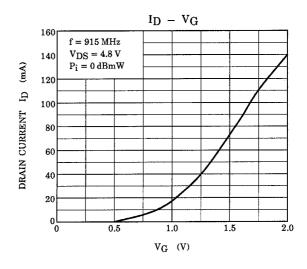
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L1 : ϕ 0.6 mm, 5.5 mmID, 5T L2 : ϕ 0.6 mm, 5.5 mmID, 8T









CAUTION

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

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