

**TOSHIBA**

**2SK711**

TOSHIBA FIELD EFFECT TRANSISTOR SILICON N CHANNEL JUNCTION TYPE

# 2SK711

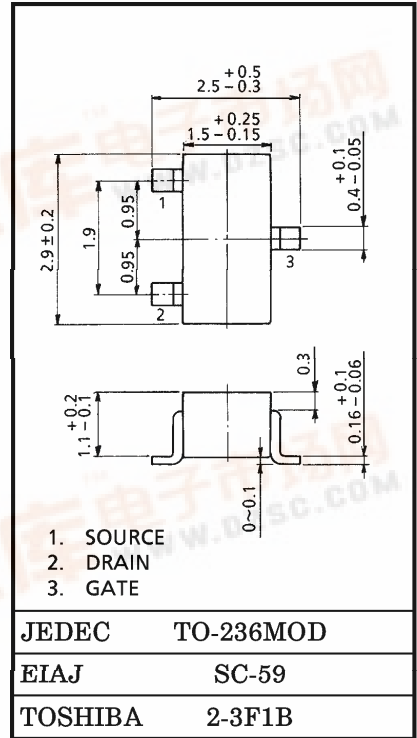
HIGH FREQUENCY AMPLIFIER APPLICATIONS

AM HIGH FREQUENCY AMPLIFIER APPLICATIONS

AUDIO FREQUENCY AMPLIFIER APPLICATIONS

Unit in mm

- High  $|Y_{fs}|$  :  $|Y_{fs}|=25\text{mS}$  (Typ.)
- Low  $C_{iss}$  :  $C_{iss}=7.5\text{pF}$  (Typ.)



MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Gate-Drain Voltage	V <sub>GDS</sub>	-20	V
Gate Current	I <sub>G</sub>	10	mA
Drain Power Dissipation	P <sub>D</sub>	150	mW
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>stg</sub>	-55~125	°C

Weight : 0.012g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> = -15V, V <sub>DS</sub> = 0V	—	—	-1.0	nA
Gate-Drain Breakdown Voltage	V <sub>(BR)GDS</sub>	V <sub>DS</sub> = 0V, I <sub>G</sub> = -100μA	-20	—	—	V
Drain Current	I <sub>DSS</sub> (Note)	V <sub>DS</sub> = 5V, V <sub>GS</sub> = 0V	6	—	32	mA
Gate-Source Cut-off Voltage	V <sub>GS(OFF)</sub>	V <sub>DS</sub> = 5V, I <sub>D</sub> = 1μA	—	—	-2.5	V
Forward Transfer Admittance	Y <sub>fs</sub>	V <sub>DS</sub> = 5V, V <sub>GS</sub> = 0V, f = 1kHz	15	25	—	mS
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> = 5V, V <sub>GS</sub> = 0V, f = 1MHz	—	7.5	10	pF
Reverse Transfer Capacitance	C <sub>rss</sub>	V <sub>DS</sub> = 5V, I <sub>D</sub> = 0mA, f = 1MHz	—	2	3	pF

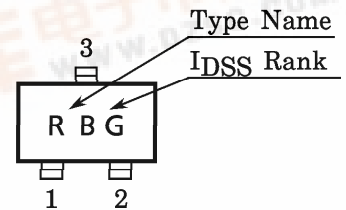
Marking

Note: I<sub>DSS</sub> Classification

GR : 6~12mA, BL : 10~20mA, V : 16~32mA

(G) (L) (V)

( ) ... I<sub>DSS</sub> Rank Markng



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