

2SJ72

Unit in mm

The diagram illustrates the mechanical specifications of the TO-92MOD package. The top view shows a circular base with a diameter of 2.54 mm. Three leads are attached to the base, labeled 1 (DRAIN), 2 (GATE), and 3 (SOURCE). The distance between the centers of leads 1 and 2 is 1.27 mm, and the distance between the centers of leads 2 and 3 is also 1.27 mm. The side view shows the package height with a maximum dimension of 8.2 mm. The lead length is specified as 1.0 mm. The distance from the base to the top of the package is 2.2 mm maximum, and the distance from the base to the bottom of the package is 10.5 mm minimum. The package is identified as JEDEC TO-92MOD, EIAJ, and TOSHIBA 2-5J1B.

5.1 MAX.

8.2 MAX.

0.75 MAX.

1.0 MAX.

0.80 MAX.

0.60 MAX.

1.0

2.2 MAX.

10.5 MIN.

1.27

1.27

2.54

1 2 3

0.6 MAX.

4.1 MAX.

1. DRAIN
2. GATE
3. SOURCE

JEDEC TO-92MOD

EIAJ

TOSHIBA 2-5J1B

CHARACTERISTIC	SYMBOL	RATING	UNIT
Gate-Drain Voltage	V_{GDS}	25	V
Gate Current	I_G	-10	mA
Drain Power Dissipation	P_D	600	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	-55 ~ 125	°C

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{GS}=25V, V_{DS}=0$	-	-	1.0	nA
Gate-Drain Breakdown Voltage	$V(BR)_{GDS}$	$V_{DS}=0, I_G=100\mu A$	25	-	-	V
Drain Current	I_{DSS} (Note)	$V_{DS}=-10V, V_{GS}=0$	-5.0	-	-30	mA
Gate-Source Cut-off Voltage	$V_{GS(OFF)}$	$V_{DS}=-10V, I_D=-0.1\mu A$	0.3	-	2.0	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=-10V, V_{GS}=0,$ $f=1kHz$ (TYP: $I_{DSS}=-5mA$)	30	40	-	mS
Input Capacitance	C_{iss}	$V_{DS}=-10V, V_{GS}=0, f=1MHz$	-	185	-	pF
Reverse Transfer Capacitance	C_{rss}	$V_{DG}=-10V, I_D=0, f=1MHz$	-	55	-	pF
Noise Figure	NF(1)	$V_{DS}=-10V, R_G=100\Omega$ $I_D=-5mA, f=100Hz$	-	5	10	dB
	NF(2)	$V_{DS}=-10V, R_G=100\Omega$ $I_D=-5mA, f=1kHz$	-	1	2	

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STATIC CHARACTERISTICS



